

Lancaster Laboratories Sample No. SW 4541887

OU4-SS-02-COMP2(1-6) Soil Sample

RAL DePue Site

Collected: 06/03/2005

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:20

Discard: 07/31/2005

02216 SDG#: DPU03-04

Account Number: 11594

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

CAT				Dry		
No.	Analysis Name	12212 501 101	Dry	Method		Dilution
	Marysis Name	CAS Number	Result	Detection	Units	Factor
00159	Mercury	7439-97-6	0.0056	Limit		
01643	Aluminum	7429-90-5	0.0856 J	0.110	mg/kg	1
01650	Calcium	7440-70-2	13,900.	22.0	mg/kg	1
01654	Iron		4,490.	33.0	mg/kg	1
01657	Magnesium	7439-89-6	20,100.	22.0	mg/kg	1
01662	Potassium	7439-95-4	3,430.	27.5	mg/kg	1
01667	and the second s	7440-09-7	1,930.)	54.9	mg/kg	1
06925		7440-23-5	174.	110.	mg/kg	1
06935		7440-28-0	1.46	1.10	mg/kg	1
06936		7440-38-2	9.41	1.10	mg/kg	1
06944	o o z o i z u ii.	7782-49-2	N.D.	1.10	mg/kg	1
06946	Antimony Barium	7440-36-0	N.D.	6.59	mg/kg	1
06947		7440-39-3	602.	11.0	mg/kg	1
06949	Beryllium	7440-41-7	0.699	0.330	mg/kg	1
06951	Cadmium	7440-43-9	12.5	2.20	mg/kg	1
	one one tale	7440-47-3	21.6	4.40	mg/kg	1
06952		7440-48-4	8.17	5.49	mg/kg	1
06953		7440-50-8	27.4	4.40	mg/kg	1
06955	Lead	7439-92-1	101.	11.0	mg/kg	ı
06958	Manganese	7439-96-5	667.	2.20	mg/kg	1
06961	Nickel	7440-02-0	16.9	5.49	mg/kg	1
06966	Silver	7440-22-4	0.552 J	2.20	mg/kg	1
06971	Vanadium	7440-62-2	36.3	2.20	mg/kg	1
06972	Zinc	7440-66-6	779.	11.0	mg/kg	1
00111	Moisture Code 086	n.a.	9.0	0.50	111g / Kg	1
	"Moisture" represents the loss	in weight of t	ha comple often		2	1
	105 degrees cersius. The	moisture resul	t reported above	ve is on an		
00394	as-received basis. pH Code 067			AND STATES		
00004	ph code 06/	n.a.	7.3	0.010	Std.	1
	The pH was performed on a 1:1	slurry (25 cm	of	0.5	Units	

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

CAT No.

Analysis Name

Method

Analysis
Trial# Date and Time

Analyst 8814

Dilution Factor



Lancaster Laboratories, Inc. 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4541888

OU4-SS-02-COMP2(6-12) Soil Sample

RAL DePue Site

Collected: 06/03/2005

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:21

Discard: 07/31/2005

02261 SDG#: DPU03-05

Account Number: 11594

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

Dry CAT Dry Method Dilution No. Analysis Name CAS Number Result Detection Units Factor Limit 06935 Arsenic 7440-38-2 9.70 1.09 mg/kg 00111 Moisture Code 086 n.a. 8.4 0.50 "Moisture" represents the loss in weight of the sample after oven drying at 1 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis. 00394 pH Code 067 n.a. 0.010 Std. 1 Units

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

CAT		- 1	0			
No. 06935	Analysis Name Arsenic	Method SW-846 6010B	Trial#	Analysis Date and Time 06/14/2005 07:41	Analyst	Dilution Factor
00111	Moisture Code 086	EPA 160.3 modified	î	06/13/2005 17:48	Joanne M Gates	1
00394	pH Code 067	SW-846 9045C	1	06/14/2005 02:35	Scott W Freisher	1
05708	SW SW846 ICP Digest	(modified) SW-846 3050B		06/13/2005 20:00	Daniel S Smith	1
			*	00/13/2005 20:00	Annamaria Stipkovits	1





Lancaster Laboratories Sample No. SW 4541889

OU4-SS-02-COMP2(12-18) Soil Sample

RAL DePue Site

Collected: 06/03/2005

Account Number: 11594

Submitted: 06/10/2005 08:55

Reported: 06/30/2005 at 15:21

Blasland, Bouck & Lee 6723 Towpath Road, Box 66

Discard: 07/31/2005

Syracuse NY 13214-0066

02212 SDG#: DPU03-06

				Dry		
CAT			Dry	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
				Limit		
06935	Arsenic	7440-38-2	10.1	1.13	mg/kg	1
00111	Moisture Code 086	n.a.	11.6	0.50	*	1
	"Moisture" represents the loss	s in weight of t	he sample aft	er oven drving at		
	103 - 105 degrees Celsius. The	e moisture resul	t reported ab	ove is on an		
	as-received basis.					
00394	pH Code 067	n.a.	7.2	0.010	Std.	1
					Units	
	The mil rine monfermed as - 1.3	-1 105			MARKET STREET, ST.	

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

T 1			~1	. 7
1.200	rat	OTIL	('hr	onicle
Labo	$\perp a \iota$	O + V	CIII	TITE

		Laboratory	CITTO	111010		
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06935	Arsenic	SW-846 6010B	1	06/14/2005 07:46	Joanne M Gates	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:48	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/13/2005 20:00	Annamaria Stipkovits	1





Lancaster Laboratories Sample No. SW 4541890

OU4-SS-02-COMP3(0-1) Soil Sample

RAL DePue Site

Collected: 06/03/2005

Account Number: 11594

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:21

Blasland, Bouck & Lee 6723 Towpath Road, Box 66

Discard: 07/31/2005

Syracuse NY 13214-0066

02301 SDG#: DPU03-07

enic					Factor
too degrees cersius. The	7440-38-2 n.a. in weight of the moisture result	6.93 11.7 he sample afte t reported abo	Limit 1.13 0.50 er oven drying at ove is on an	mg/kg %	1
Code 067	n.a.	6.6	0.010	Std.	1
•	eceived basis. Code 067	eceived basis. Code 067 n.a.	eceived basis.	Code 067 n.a. 6.6 0.010	code 067 n.a. 6.6 0.010 Std.

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

CAT						
No. 06935	Analysis Name Arsenic	Method SW-846 6010B	Trial#	Analysis Date and Time 06/14/2005 07:50	Analyst Joanne M Gates	Dilution Factor
00111	Moisture Code 086 pH Code 067	EPA 160.3 modified SW-846 9045C	1	06/13/2005 17:48 06/14/2005 02:35	Scott W Freisher Daniel S Smith	1
05708	SW SW846 ICP Digest	(modified) SW-846 3050B	1	06/13/2005 20:00	Annamaria Stipkovits	1





Lancaster Laboratories Sample No. SW 4541891

OU4-SS-02-COMP3(1-6) Soil Sample

RAL DePue Site

Collected:06/03/2005

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:21

Discard: 07/31/2005

02316 SDG#: DPU03-08

Account Number: 11594

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	12.0	1.09	mg/kg	
00111	Moisture Code 086	n.a.	8.3	0.50	mg/kg	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	in weight of t moisture resul	he sample aft t reported ab	or over drude	•	1
00394	pH Code 067	n.a.	7.0	0.010	Std.	1
	The pH was performed on a 1:1 of deionized water) after bein	slurry (25 gms. g tumbled for 3	of sample an 0 min.	d 25 ml.	Units	

CAT		Laboratory	Chro	nicle		
No. 06935 00111 00394	Analysis Name Arsenic Moisture Code 086 pH Code 067	Method SW-846 6010B EPA 160.3 modified SW-846 9045C (modified)	Trial# 1 1 1	Analysis Date and Time 06/14/2005 07:55 06/13/2005 17:48 06/14/2005 02:35	Analyst Joanne M Gates Scott W Freisher Daniel S Smith	Dilution Factor 1 1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/13/2005 20:00	Annamaria Stipkovite	1





Lancaster Laboratories Sample No. SW 4541892

OU4-SS-02-COMP3(6-12) Soil Sample

RAL DePue Site

Collected: 06/03/2005

Account Number: 11594

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:21

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

02361 SDG#: DPU03-09

				Dry		
CAT			Dry	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
06935	Arsenic	7440-38-2	9.45	1.11	mg/kg	1
00111	Moisture Code 086	n.a.	10.3	0.50	8	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.					
00394	pH Code 067	n.a.	6.7	0.010	Std.	1

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06935	Arsenic	SW-846 6010B	1	06/14/2005 08:00	Joanne M Gates	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:48	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/13/2005 20:00	Annamaria Stipkovits	1





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Lancaster Laboratories Sample No. SW 4541893

OU4-SS-02-COMP4(1-6) Soil Sample

RAL DePue Site

Collected: 06/03/2005

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:21

Discard: 07/31/2005

02416 SDG#: DPU03-10

Account Number: 11594

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

CAT No.			Dry	Dry Method		Dilution Factor 1
	Analysis Name	CAS Number	Result	Detection Limit	Units	
06935	Arsenic	7440-38-2	11.9	1.14	mg/kg	,
00111	Moisture Code 086	n.a.	11.9	0.50	ang/kg	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	in weight of to moisture resul	he sample aft t reported ab	er oven drying at ove is on an		•
00394	pH Code 067	n.a.	7.1	0.010	Std. Units	1
	The pH was performed on a 1:1 of deionized water) after being	slurry (25 gms. g tumbled for 30	of sample an	d 25 ml.	onits	

Laboratory Chronicle

CAT		-				
No. 06935 00111 00394	Analysis Name Arsenic Moisture Code 086 pH Code 067	Method SW-846 6010B EPA 160.3 modified SW-846 9045C		Analysis Date and Time 06/14/2005 08:14 06/13/2005 17:48 06/14/2005 02:35	Analyst Joanne M Gates Scott W Freisher Daniel S Smith	Dilution Factor
05708	SW SW846 ICP Digest	(modified) SW-846 3050B	1	06/13/2005 20:00	Annamaria Stipkovits	1





Lancaster Laboratories Sample No. SW 4541894

OU4-SS-02-COMP4(6-12) Soil Sample

RAL DePue Site

Collected: 06/03/2005

Submitted: 06/10/2005 08:55

Reported: 06/30/2005 at 15:21

Discard: 07/31/2005

02461 SDG#: DPU03-11

Account Number: 11594

Blasland, Bouck & Lee 6723 Towpath Road, Box 66

Syracuse NY 13214-0066

No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection	Units	Dilution
06935	Arsenic	7440-38-2	10.4	Limit	mg/kg	1
00111	Moisture Code 086	n.a.	12.6	0.50	nig/ kg	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	moisture resul	ne sample aft t reported ab	er oven drying at ove is on an		
00394	pH Code 067	n.a.	6.6	0.010	Std.	1
	The pH was performed on a 1:1 of deionized water) after bein	slurry (25 gms. g tumbled for 30	of sample and	d 25 ml.	Units	

Laboratory Chronicle

CAT		nanorarory	Chro	uicle		
No. 06935 00111 00394	Analysis Name Arsenic Moisture Code 086 pH Code 067	Method SW-846 6010B EPA 160.3 modified SW-846 9045C (modified)		Analysis Date and Time 06/14/2005 08:19 06/13/2005 17:48 06/14/2005 02:35	Analyst Joanne M Gates Scott W Freisher Daniel S Smith	Dilution Factor 1 1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/13/2005 20:00	Annamaria Stinkovite	1





Lancaster Laboratories Sample No. SW 4541895

OU4-SS-02-COMP5(0-1) Soil Sample

RAL DePue Site

CAT

No.

06935

00111

00394

05708

Collected: 06/03/2005

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:21

Discard: 07/31/2005

02501 SDG#: DPU03-12

Analysis Name

pH Code 067

Moisture Code 086

SW SW846 ICP Digest

Arsenic

Account Number: 11594

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection	Units	Dilution Factor
06935 00111	Arsenic Moisture Code 086 "Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	7440-38-2 n.a. in weight of the moisture result	13.5 13.7 he sample after t reported abo	Limit 1.16 0.50 er oven drying at ove is on an	mg/kg %	1
00394	pH Code 067 The pH was performed on a 1:1 of deionized water) after being	n.a. slurry (25 gms. g tumbled for 30	6.7 of sample and	0.010 i 25 ml.	Std. Units	1

Laboratory Chronicle Dilution Analysis Method Trial# Date and Time SW-846 6010B Analyst Factor Joanne M Gates 1 06/14/2005 08:23 1 EPA 160.3 modified 1 06/13/2005 17:48 Scott W Freisher 7 SW-846 9045C 1 06/14/2005 02:35 Daniel S Smith 3

1 06/13/2005 20:00 Annamaria Stipkovits

5823



(modified)

SW-846 3050B



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Lancaster Laboratories Sample No. SW 4541896

OU4-SS-02-COMP5(1-6) Soil Sample

RAL DePue Site

Collected: 06/03/2005

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:21

Discard: 07/31/2005

02516 SDG#: DPU03-13

Account Number: 11594

Dry

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

CAT				Dry		
	•		Dry	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
00159	Mercury	7400 07 6	2002	Limit		
01643	Aluminum	7439-97-6	0.137	0.114	mg/kg	1
01650		7429-90-5	10,800.	22.8	mg/kg	1
01654		7440-70-2	5,360.	34.2	mg/kg	1
01657	(1)(2)	7439-89-6	20,700.	22.8	mg/kg	1
01662		7439-95-4	3,400.	28.5	mg/kg	1
01662		7440-09-7	1,600.	56.9	mg/kg	1
	o o ora carr	7440-23-5	170. 🕽	114.	mg/kg	1
06925		7440-28-0	2.19	1.14	mg/kg	1
06935		7440-38-2	14.1	1.14	mg/kg	1
06936		7782-49-2	N.D.	1.14	mg/kg	1
06944		7440-36-0	N.D.	6.83	mg/kg	1
06946		7440-39-3	2,370.	11.4	mg/kg	5
06947		7440-41-7	0.853	0.342	mg/kg	1
06949	Cadmium	7440-43-9	26.0 \(\)	2.28	mg/kg	1
06951		7440-47-3	21.7	4.56	mg/kg	1
06952		7440~48-4	6.20	5.69	mg/kg	1
06953		7440-50-8	40.2	4.56	mg/kg	î .
06955	Lead	7439-92-1	405.	11.4	mg/kg	1
06958	Manganese	7439-96-5	598.	2.28	mg/kg	1
06961	Nickel	7440-02-0	18.3	5.69	mg/kg	1
06966	Silver	7440-22-4		2.28	mg/kg	
06971	Vanadium	7440-62-2	30.6	2.28		1
06972	Zinc	7440-66-6	1,970.	11.4	mg/kg	1
00111	Moisture Code 086	n.a.	12.2	0.50	mg/kg	1
	"Moisture" represents the loss		ha comple after	0.50	%	1
	103 - 105 degrees Celsius. The	moisture resul	t reported above	r oven drying at		
	as-received basis.		porece abo	40 23 Oil all		
00394	pH Code 067	n.a.	6.7	0.010	Std.	1
	The all				Units	-
	The pH was performed on a 1.1	clurry 175 cmc	a f a a 1	00 3		

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

CAT No.

Analysis Name

Method

Analysis Trial# Date and Time

Analyst 5524

Dilution Factor





Lancaster Laboratories Sample No. SW 4541897

OU4-SS-02-COMP5(6-12) Soil Sample

RAL DePue Site

Collected: 06/03/2005

Account Number: 11594

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:21

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

Discard: 07/31/2005

02561 SDG#: DPU03-14*

				Dry		
CAT			Dry	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
06005				Limit		
06935	Arsenic	7440-38-2	9.02	1.18	mg/kg	1
00111	Moisture Code 086	n.a.	15.2	0.50	4	1
	"Moisture" represents the loss	in weight of t	he sample aft	er oven drying at	33.	-
	103 - 105 degrees Celsius. The as-received basis.	moisture resul	t reported ab	pove is on an		
00394	pH Code 067	n.a.	6.6	0.010	Std.	1
	The million of the second				Units	

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

CAT		· ·		Analysis		
No. 06935	Analysis Name	Method	Trial#	Date and Time	Analyst	Dilution Factor
00111	Arsenic	SW-846 6010B	1	06/14/2005 08:33	Joanne M Gates	1
00394	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:48	Scott W Freisher	1
	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/13/2005 20:00	Annamaria Stipkovits	1

5826.



Lancaster Laboratories, Inc. 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681 Chain of Custody



Syracuse, NY 13214-0068

(315) 446-9120 PROJ. NO.

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Page 1 of 2

acot# 11594 Croy#947015 Sample#4541884-97

COC Number Remarks ABONK ONCY ARDEDIC ONLY ALDENIC ONLY APPENIC ONLY ARDIAL ONLY ARBEING ONLY ARBEDIIC ORICH ACDENAL DIALY Assense HOLD Requested Analyses 4 TIME MATRIX COMP. GRAB Containers 1 2 × × RAL DePue 8tb × SO တ္တ စ္တ တ္တ S S 80 8 800 6/1/2005 0:00 00.0 6/1/2005 0:00 0:00 6/1/2005 0:00 8/1/2005 0:00 6/1/2005 0:00 6/1/2005 0:00 6/1/2005 0:00 6/1/2005 0:00 8/1/2005 8/1/2005 6/1/2005 PROJECT NAME DATE OU4-SS-02-COMP1(8-12) OU4-5S-02-COMP2(12-18) OU4-SS-02-COMP1(0-1) OU4-SS-02-COMP1(1-6) OU4-SS-02-COMP2(1-6) OU4-SS-02-COMP2(8-12) OUA-SS-02-COMP3(8-12) OU4-SS-02-COMP3(0-1) OU4-SS-02-COMP3(1-6) OUM-SS-02-COMP4(1-6) OUA-SS-02-COMP4(8-12) OU4-SS-02-COMP5(0-1) SAMPLE 10 SAMPLERS: (8igniture)

ns/ Comments:	Laboratory Information and Receipt Sample Receipt Sample Receipt Cooler packed with ice Signature Signatu
1. Metals 2. pH	4. 6. Control of the control of th



Byrncuse, NY 13214-0068

(315) 446-9120

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Page 2 of 2

acut 11594 Gay #947015 Sample #4541884-97

2 COC Number Remarks ARSENAL ONLY TIME MATRIX COMP. GRAB Containers 1 2 3 4 6 6 7 HOLD Requested Analyses RAL DePue 8 tte 80 80 6/1/2005 0:00 8/1/2005 0:00 DATE PROJECT NAME OU4-SS-02-COMP5(6-12) OU4-8S-02-COMP5(1-6) SAMPLE ID SAMPLERS: (Signiture) 85534 ROJ. NO.

图 Special QA/QC Instructions	Sample Receipt: Condition/Cooler Temp: TIME Received by: (Signature) TIME Received by: (Signature) TIME Received by: (Signature)	
(2) Special Q	Refinquished by: (Signature)	
Special Instructions/ Comments:	Lab Name: Lancester Laboratories Shipping Tracking # Specify Turnaround Requirements: E Received by: (Signature) E Received by: (Signature)	
Requested Analyses 1. Metals 2. pH	6. 6. Rollnquished by: (Signature) DATE TIME Collnquished by: (Signature) DATE TIME TIME (Signature) DATE TIME (Signature) DATE TIME	

DATA REVIEW FOR

DEPUE REMOVAL ACTION LIMIT (RAL) ASSESSMENT DEPUE, ILLINOIS

SDG# DPU04

METALS ANALYSES

Analyses performed by:

Lancaster Laboratories, Inc. Lancaster, Pennsylvania

Review performed by:



Blasland, Bouck & Lee, Inc. Syracuse, New York Summary The following is an assessment of the data package for SDG# DPU04 for sampling from the RAL DePue Site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Analysis					
Sample ID	Labib	WIGHTA	Date	VOA	svoc	PCB	MET	PEST	MISC
OU4-SS-03-COMP1(0-1)	4541898	Soil	6/6/2005				X		
OU4-SS-03-COMP1(1-6)	4541899	Soil	6/6/2005				Х		
OU4-SS-03-COMP1(6-12)	4541900	Soil	6/6/2005				Х		
OU4-SS-03-COMP2(0-1)	4541901	Soil	6/6/2005				X		
OU4-SS-03-COMP2(1-6)	4541902	Soil	6/6/2005				X		
OU4-SS-03-COMP2(6-12)	4541903	Soil	6/6/2005				Х		
OU4-SS-03-COMP2(12-18)	4541904	Soil	6/6/2005				X		
OU4-SS-03-COMP3(0-1)	4541905	Soil	6/6/2005				X		
OU4-SS-03-COMP3(1-6)	4541906	Soil	6/6/2005				X		
OU4-SS-03-COMP3(6-12)	4541907	Soil	6/6/2005				X		
OU4-SS-03-COMP3(12-18)	4541908	Soil	6/6/2005				X		
OU4-SS-03-COMP4(0-1)	4541909	Soil	6/6/2005				X		
OU4-SS-03-COMP4(12-18)	4541910	Soil	6/6/2005				X		

METALS ANALYSES

Introduction

Analyses were performed according to USEPA 6000/7000. Data were reviewed in accordance with USEPA National Functional Guidelines of February 1994.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

Concentration (C) qualifiers:

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
- B The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).

Quantitation (Q) qualifiers:

- E The reported value is estimated due to the presence of interference.
- N Spiked sample recovery not within control limits.
- * Duplicate analysis not within control limits.

Validation qualifiers:

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for metals analyses is 180 days and for mercury is 28 days from sample receipt. Samples are required to be preserved at 4°C.

All samples were analyzed within the specified holding times.

Note: Sample temperatures were greater than the required preservation temperature of 4°C.

2. Blank Contamination

Quality assurance blanks, i.e., method or rinse blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks (including initial and continuing calibration blanks and preparation blanks) measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

Several analytes were detected above the method detection limit in the method blank and/or the calibration blank. All associated sample results were greater than the blank action limit; therefore, none of the data were qualified.

Sodium was detected above the method detection limit in the associated rinse blank (RB060605-1) collected on 6/6/05 and found in SDG#DPU05. All associated sample results were greater than the blank action limit; therefore, none of the data were qualified.

Several analytes were detected above the method detection limit in the associated rinse blank (RB060605-2) collected on 6/6/05 and found in SDG#DPU05. All associated sample results were greater than the blank action limit; therefore, none of the data were qualified.

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument continuing performance is satisfactory.

3.1 Initial Calibration

The correct number and type of standards were analyzed and all initial calibration verification standard recoveries were within control limits.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within control limits.

3.3 CRDL Standard

All required analytes evaluated by the guidelines exhibited CDRL recoveries within the control limit with the exception of silver. The CRDL standard of this analyte exhibited recoveries greater than the control limit. All associated sample locations were qualified as estimated.

3.4 ICP Interference Control Sample

All ICS recoveries were acceptable.

4. Matrix Spike/ Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate

Matrix spike and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS/MSD

The MS/MSD recoveries of zinc exhibited recoveries greater than control limits. All associated sample results for zinc were qualified as estimated.

The MS/MSD recoveries of antimony and cadmium exhibited recoveries less than control limits. All associated sample results for antimony and cadmium were qualified as estimated.

4.2 Laboratory Duplicate

The laboratory duplicate results of vanadium were greater than control limits. All associated sample results for vanadium were qualified as estimated.

5. Field Duplicate

No field duplicates were performed within this SDG.

6. Laboratory Control Sample (LCS)

LCS recoveries were within control limits.

7. Serial Dilution

Serial dilutions were within control limits.

8. Furnace QC

No furnace analyses were performed on the samples.

9. Method of Standard Additions (MSA)

No samples were analyzed following the MSA.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Inorganic Data Validation Checklist	MEG	NO	37.4
Data Completeness and Deliverables	YES	NO	NA
Is there a narrative or cover letter present?	X		
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	X		
Is the package paginated?	X		
Are the forms and copies legible?	X		
Form I to IX			
Are all the Form I through Form IX labeled with:			
Laboratory name?	X		
Sample No.?	X		
SDG No.?	X		
Correct units?	X		
Matrix?	X		
Raw Data			
Is the digestion log for flame AA/ICP present?	X		
Is the digestion log for furnace AA present?			X
Is the distillation log for mercury present?			X
Is the distillation log for cyanides present?			X
Are pH values listed?			
pH for metals analyses <2 (waters)?			X
pH for cyanide analyses >12 (waters)?			X
Percent solids calculation present for soils/sediments?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present for:			
ICP	X		
Flame AA			X
Furnace AA			X
Mercury	X		
Cyanides			X
Is the data legible?	X		_
Is the data properly labeled?	X		
Holding Times			
Were mercury analyses performed within 28 days?	X		

Inorganic Data Validation Checklist	YES	NO	NA
Were cyanide distillations performed within 14 days?	1125	110	X
Were other metal analysis performed within 6 months?	X		
Form I (Final Data)	37		
Are all forms complete?	X		
Are correct units indicated on Form I's?	X		
Are soil sample results for each parameter corrected for percent solids?	X		
Are all "less than IDL" values properly coded with "U"?	X		
Are the correct concentration qualifiers on Form 1's?	X		
Is a physical description of samples given on Form I's?	X		
Calibration			
Is a record of at least 2 point calibration present for ICP analysis?	X		
Is a record of 5 point calibration present for Hg analysis?	X		
Is a record of 4 point calibration present for:			
Flame AA?			X
Furnace AA?			X
Cyanides?			X
Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses?			X
Is correlation coefficient less than .995 for:			
Mercury Analysis?		X	
Cyanide Analysis?			X
Atomic Absorption Analysis?			X
Form II A (Initial and Continuing Calibration Verification)			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits for:			
Metals (90-110%)?	X		
Hg (80-120%)?	X		
Cyanides (85-115%)?			X
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Was the ICV for cyanides distilled?			X
Form II B (CRDL Standards for AA and ICP)			
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?	X		
Was a mid-range calibration verification standard distilled and analyzed for cyanide analysis?			X
Was a 2xCRDL (or 2xIDL when IDL>CRDL) standard (CRI) analyzed for each ICP run?			

Inorganic Data Validation Checklist	YES	NO	NA
	X	NO	X
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB, and twice every eight hours for each ICP run?	X		X
Are CRA and CRI standards within control limits for metals (70-130%)?		X	
Is mid-range standard within control limits for cyanide (80-120%)			X
Form III (Initial and Continuing Calibration Blanks)			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks (when IDL <crdl) (crdls)?<="" contract="" detection="" equal="" less="" limits="" or="" required="" td="" than="" the="" to=""><td></td><td>X</td><td></td></crdl)>		X	
Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?	X		
Form III (Preparation Blank)			
Was one prep. blank analyzed for:			
each Sample Delivery Group SDG)?	X		
each batch of digested samples?	X		
each matrix type?	X		
Is concentration of prep. blank value less than the CRDL (when IDL≤CRDL)?	X		
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	X		
Is concentration of prep. blank value less than two times IDL (when IDL>CRDL)?		X	
Is concentration of prep. blank below the negative CRDL?		X	
Form IV (ICP Interference Check Sample)			$\overline{}$
Present and complete?	X		
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	X		
Are all ICS results inside the control limits (±20%)?	X		
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?			X
Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation			
Present and complete for:			
each SDG?	X		
each matrix type?	X		
Was field blank used for spiked sample?		X	
Are all recoveries for analytes with sample concentrations less than four times the spike		X	

Inorganic Data Validation Checklist	YES	NO	NA
concentration within control limits (75-125)?			
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?			X
Aqueous			
Are any spike recoveries:			
less than 30%?			X
between 30-74%?			X
between 126-150%?			X
greater then 150%?			X
<u>Soil/Sediment</u>			
Are any spike recoveries:			
less than 10%?		X	
between 10-74%?	X		
between 126-200%?	X		
greater than 200%?		X	
Form VI (Lab Duplicates)			
Present and complete for:			
each SDG?	X		
each matrix type?	X		
Was field blank used for duplicate analysis?		X	
Are all values within control limits (RPD 20% or difference ≤ ±CRDL)?		X	
If no, are all results outside the control limits flagged with an * on Form I's and VI?	X		
Aqueous			
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?			X
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) >35 %?		X	
Is any difference between sample and duplicate (where sample and/or duplicate is less than $5xCRDL$) > $2xCRDL$?		X	
Field Duplicates			
Were field duplicates analyzed?		X	
Aqueous			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5xCRDL?			X
4847R doc	JCH		X

Inorganic Data Validation Checklist	VEC	370	3.7.4
Is any difference between sample and duplicate greater than CRDL where sample and/or	YES	NO	NA
duplicate is less than 5xCRDL?			
<u>Soil/Sediment</u>			
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?			X
Is any difference between sample and duplicate (where sample and/or duplicate is less than $5x$ CRDL) $> 2x$ CRDL?			X
Form VII (Laboratory Control Sample)			
Was one LCS prepared and analyzed for:			
each SDG?	X		
each batch samples digested/distilled?	X		
Aqueous LCS			
Is any LCS recovery:			X
less than 50%?			X
between 50% and 79%?			X
between 121% and 150%?			X
greater than 150%?			X
Solid LCS			
Is LCS "Found" value higher than the control limits?		X	
Is LCS "Found" lower than the control limits?		X	
Form IX (ICP Serial Dilution)			
Was Serial Dilution analysis performed for:			
each SDG?	X		
each matrix type?	X		
Was field blank(s) used for Serial Dilution Analysis?		X	
Are results outside control limits flagged with an "E"" on Form I's and Form IX when the initial concentration on Form IX is equal to 50 times IDL or greater.		X	
Are any required % difference values:			
> 10%?	X		
≥100%?		X	
Furnace Atomic Absorption (AA) QC Analysis			
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?			X
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?			X
Were dilutions analyzed for samples with analytical spike recovery less than 40%?			X

Inorganic Data Validation Checklist	YES	NO	NA
Is analytical spike recovery outside the control limits (85-115%) for any sample?	123	110	X
			1
Form VIII (Method of Standard Addition Results)			V
Present?			X
If no, is any Form I result coded with "S" or "+"?			X
Was MSA required for any sample but not performed?			X
Is the coefficient of correlation for MSA less than 0.995 for any sample?			X
Is the coefficient of correlation for MSA less than 0.990 for any sample?			X
Was proper quantitation procedure followed?			X
Dissolved/Total for Inorganic/Total Analytes			
Were any analyses performed for dissolved as well as total analytes on the same sample.			X
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if >CRDL)			X
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?			X
Field Blank			
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?			X
If no, was field blank value already rejected due to other QC criteria?			X
Form X, XI, XII (Verification of Instrumental Parameters)			
Is verification report present for :			
Instrument Detection Limits (quarterly)?	X		
ICP Interelement Correlation Factors (annually)?	X		
ICP Linear Ranges (quarterly)?	X		
Is IDL greater than CRDL for any analyte?		X	
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.			X
Was any sample result higher than the linear range of ICP.		X	
Was any sample result higher than the highest calibration standard for non-ICP parameters?		X	
If yes for any of the above, was the sample diluted to obtain the result on Form I?			X
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?		X	
< 10%?		X	

Corrected Sample Analysis Data Sheets



Lancaster Laboratories Sample No. SW 4541898

OU4-SS-03-COMP1(0-1) Soil Sample

RAL DePue Site

Collected: 06/06/2005

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:16

Discard: 07/31/2005

03101 SDG#: DPU04-01

Account Number: 11594

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection	Units	Dilution Factor
00159		7439-97-6	0.208	Limit		
01643	The Cartest Cart	7429-90-5		0.110	mg/kg	1
01650		7440-70-2	11,600.	22.0	mg/kg	1
01654	Iron	7439-89-6	9,510.	33.0	mg/kg	1
01657	Magnesium	7439-95-4	28,500.	22.0	mg/kg	1
01662	1 o cassiani	7440-09-7	3,140.	27.5	mg/kg	1
01667	Sodium	7440-23-5	1,940.	55.0	mg/kg	1
06925	Thallium	7440-23-5	175.	110.	mg/kg	1
06935	Arsenic	7440-28-0	2.55	1.10	mg/kg	1
06936	Selenium	7782-49-2	18.2	1.10	mg/kg	1
06944	Antimony		2.68	1.10	mg/kg	1
06946	Barium	7440-36-0 7440-39-3	N.D. 🐉	6.60	mg/kg	1
06947	Beryllium		6,200.	11.0	mg/kg	10
06949		7440-41-7	0.823	0.330	mg/kg	1
06951	Chromium	7440-43-9	109.	2.20	mg/kg	1
06952	Cobalt	7440-47-3	21.3	4.40	mg/kg	1
06953	Copper	7440-48-4	9.71	5.50	mg/kg	1
06955	Lead	7440-50-8	97.1	4.40	mg/kg	1
06958	Manganese	7439-92-1	584.	11.0	mg/kg	1
06961	Nickel	7439-96-5	832.	2.20	mg/kg	1
06966	Silver	7440-02-0	18.9	5.50	mg/kg	1
06971	Vanadium	7440-22-4	2.06 J	2.20	mg/kg	1
06972	Zinc	7440-62-2	31.2	2.20	mg/kg	1
00111	Moisture Code 086	7440-66-6	5,850.	11.0	mg/kg	10
	"Moisture" represents the last	n.a.	9.1	0.50	8	1
00394	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	in weight of the moisture result	ne sample after t reported abov	oven drying at re is on an	v	1
00004	pH Code 067 The pH was performed on a 1:1 s	n.a.	6.2	0.010	Std. Units	1
	of doing	Turry (25 gms.	of sample and	25 ml	OHILLS	

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

No. Analysis Name

CAT

Method

Analysis Trial# Date and Time

Analyst

Dilution Factor



Lancaster Laboratories, Inc. 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681



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Lancaster Laboratories Sample No. SW 4541899

OU4-SS-03-COMP1(1-6) Soil Sample

RAL DePue Site

Collected: 06/06/2005

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:16

Discard: 07/31/2005

03116 SDG#: DPU04-02

Account Number: 11594

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

CAT No.	Analysis Name		Dry	Dry Method		Dilution	
	ratery of s Name	CAS Number	Result	Detection	Units	Factor	
06935	Arsenic	7440-38-2	10.0	Limit		- 40002	
06949	Cadmium	7440-38-2	19.8	1.08	mg/kg	1	
00111	Moisture Code 086		49.7	2.16	mg/kg	1	
		n.a.	7.6	0.50	8	1	
00204	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	in weight of t moisture resul	he sample afte t reported abo	er oven drying at ove is on an		•	
00394	PH Code 067	n.a.	6.2	0.010	Std.	1	
	The pH was performed on a 1:1	slurry (25 gms.	Of sample and	25 2	Units		

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

No. Analysis Name Method Trial# Date and Time Analyst Dilution 06935 Arsenic SW-846 6010B 1 06/15/2005 16:02 Donna R Sackett 1 06949 Cadmium SW-846 6010B 1 06/15/2005 16:02 Donna R Sackett 1 00111 Moisture Code 086 EPA 160.3 modified 1 06/13/2005 17:27 Scott W Freisher 1 00394 PH Code 067 SW-846 9045c 1 06/14/2005 02:35 Daniel S Smith 1 05708 SW SW846 ICP Digest SW-846 6010B 1 06/14/2005 20:00 Annamaria Stipkovits 1	CAT		Edbordtory	CHILO	urcre		
	06935 06949 00111 00394	Arsenic Cadmium Moisture Code 086 pH Code 067	SW-846 6010B SW-846 6010B EPA 160.3 modified SW-846 9045C (modified)	1 1 1	Date and Time 06/15/2005 16:02 06/15/2005 16:02 06/13/2005 17:27 06/14/2005 02:35	Donna R Sackett Donna R Sackett Scott W Freisher	Factor 1 1 1 1



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Lancaster Laboratories Sample No. SW 4541900

OU4-SS-03-COMP1(6-12) Soil Sample

RAL DePue Site

Collected: 06/06/2005

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:16

Discard: 07/31/2005

O3161 SDG#: DPU04-03

Account Number: 11594

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic Moisture Code 086	7440-38-2 n.a.	11.1 6.2	1.07	mg/kg	1
00394	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis. pH Code 067	in weight of the moisture result n.a.	he sample aft t reported abo	er oven drying at ove is on an 0.010	Std.	1
	The pH was performed on a 1:1 : of deionized water) after being	Units	.			

T -	boratory	~1	
10	DOTATORY	Chroni	010

CAT			OTTE	111010		
No. 06935 00111 00394	Analysis Name Arsenic Moisture Code 086 pH Code 067	Method SW-846 6010B EPA 160.3 modified SW-846 9045C (modified)	1	Analysis Date and Time 06/15/2005 16:07 06/13/2005 17:27 06/14/2005 02:35	Analyst Donna R Sackett Scott W Freisher Daniel S Smith	Dilution Factor 1 1
03700	SW SW846 ICP Digest	SW-846 6010B	1	06/14/2005 20:00	Annamaria Stipkovits	1



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Lancaster Laboratories Sample No. SW 4541901

OU4-SS-03-COMP2(0-1) Soil Sample

RAL DePue Site

Collected: 06/06/2005

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:16

Discard: 07/31/2005

03201 SDG#: DPU04-04

Account Number: 11594

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection	Units	Dilution Factor
06935 00111	Arsenic Moisture Code 086 "Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	7440-38-2 n.a. in weight of t moisture resul	12.8 4.4 he sample aft t reported ab	Limit 1.05 0.50 er oven drying at ove is on an	mg/kg %	1
00394	pH Code 067 The pH was performed on a 1:1 of deionized water) after bein	n.a. slurrv (25 ams	6.6	0.010	Std. Units	1

CAT			01110	111016		
No. 06935 00111 00394	Analysis Name Arsenic Moisture Code 086 pH Code 067	Method SW-846 6010B EPA 160.3 modified SW-846 9045C (modified)		Analysis Date and Time 06/15/2005 16:11 06/13/2005 17:27 06/14/2005 02:35	Analyst Donna R Sackett Scott W Freisher Daniel S Smith	Dilution Factor 1 1
00,00	SW SW846 ICP Digest	SW-846 6010B	1	06/14/2005 20:00	Annamaria Stipkovits	1



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Lancaster Laboratories Sample No. SW 4541902

OU4-SS-03-COMP2(1-6) Soil Sample

RAL DePue Site

Collected: 06/06/2005

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:16

Discard: 07/31/2005

03216 SDG#: DPU04-05

Account Number: 11594

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	17.8	1.06	/1	197
00111	Moisture Code 086	n.a.	6.0	0.50	mg/kg	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	s in weight of the sample after oven dry e moisture result reported above is on a			8	1
00394	pH Code 067	n.a.	6.9	0.010	Std.	1
	The pH was performed on a 1:1 of deionized water) after bein	slurry (25 gms. g tumbled for 3	of sample and	d 25 ml.	Units	

CAT			CITTO	TITCIE		
No. 06935 00111 00394	Analysis Name Arsenic Moisture Code 086 pH Code 067	Method SW-846 6010B EPA 160.3 modified SW-846 9045C (modified)	1	Analysis Date and Time 06/15/2005 16:16 06/13/2005 17:27 06/14/2005 02:35	Analyst Donna R Sackett Scott W Freisher Daniel S Smith	Dilution Factor 1 1
05708	SW SW846 ICP Digest	SW-846 6010B	1	06/14/2005 20:00	Annamaria Stinkovits	1



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Lancaster Laboratories Sample No. SW 4541903

OU4-SS-03-COMP2(6-12) Soil Sample

RAL DePue Site

Collected: 06/06/2005

Account Number: 11594

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:16

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

03261 SDG#: DPU04-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection	Units	Dilution Factor
06935 00111	Arsenic Moisture Code 086 "Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	7440-38-2 n.a. in weight of t moisture resul	16.2 9.4 he sample aft t reported ab	Limit 1.10 0.50 Der oven drying at pove is on an	mg/kg %	1
00394	The pH was performed on a 1:1 of deionized water) after being	n.a. slurry (25 gms. g tumbled for 3	7.3 of sample an min.	0.010 ad 25 ml.	Std. Units	1

CAT				-11-01-0		
No. 06935 00111 00394	Analysis Name Arsenic Moisture Code 086 pH Code 067 SW SW846 ICP Digest	Method SW-846 6010B EPA 160.3 modified SW-846 9045C (modified)	1	Analysis Date and Time 06/15/2005 16:21 06/13/2005 17:27 06/14/2005 02:35	Analyst Donna R Sackett Scott W Freisher Daniel S Smith	Dilution Factor 1 1
	SW-846 6010B	1	06/14/2005 20:00	Annamaria Stipkovits	1	



Page 1 of 1

Lancaster Laboratories Sample No. SW 4541904

OU4-SS-03-COMP2(12-18) Soil Sample

RAL DePue Site

Collected: 06/06/2005

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:16

Discard: 07/31/2005

03212 SDG#: DPU04-07

Account Number: 11594

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection	Units	Dilution Factor
06935	Arsenic Moisture Code 086 "Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	7440-38-2 n.a. in weight of t moisture resul	12.5 11.6 he sample aft t reported ab	Limit 1.13 0.50 er oven drying at ove is on an	mg/kg %	1
00394	The pH was performed on a 1:1 s of deionized water) after being	n.a. durry (25 gms. tumbled for 3	7.7 of sample an 0 min.	0.010 d 25 ml.	Std. Units	1

CAT	Laboratory Chronicle					
No. 06935 00111 00394	Analysis Name Arsenic Moisture Code 086 pH Code 067 SW SW846 ICP Digest	Method SW-846 6010B EPA 160.3 modified SW-846 9045C (modified) SW-846 6010B	1	Analysis Date and Time 06/15/2005 16:35 06/13/2005 17:27 06/14/2005 02:35	Scott W Freisher Daniel S Smith	Dilution Factor 1 1
			1	06/14/2005 20:00	Annamaria Stipkovits	1

Analysis Report



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Lancaster Laboratories Sample No. SW 4541905

OU4-SS-03-COMP3(0-1) Soil Sample

RAL DePue Site

Collected: 06/06/2005

Submitted: 06/10/2005 08:55

Reported: 06/30/2005 at 15:16

Discard: 07/31/2005

03301 SDG#: DPU04-08

Account Number: 11594

Blasland, Bouck & Lee 6723 Towpath Road, Box 66

Syracuse NY 13214-0066

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection	Units	Dilution Factor
06935	Arsenic The quantitation limit for arse the sample.	7440-38-2 nic was increa	15.4 used due to hi	Limit 3.68 igh iron saturation in	mg/kg	5
00111	Moisture Code 086 "Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	n.a.	9.0	0.50	8	1
00394	pH Code 067 The pH was performed on a 1:1 stof deionized water) after being	n.a.	6.0	0.010	Std. Units	1

CAT		Laboratory	Chro	nicle		
No. 06935 00111 00394	Analysis Name Arsenic Moisture Code 086 pH Code 067	Method SW-846 6010B EPA 160.3 modified SW-846 9045C (modified)	1	Analysis Date and Time 06/17/2005 01:09 06/13/2005 17:27 06/14/2005 03:25	Analyst John P Hook Scott W Freisher Daniel S Smith	Dilution Factor 5 1
03706	SW SW846 ICP Digest	SW-846 6010B	1	06/14/2005 20:00	Annamaria Stipkovits	1



Lancaster Laboratories Sample No. SW 4541906

OU4-SS-03-COMP3(1-6) Soil Sample

RAL DePue Site

Collected: 06/06/2005

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:16

Discard: 07/31/2005

03316 SDG#: DPU04-09

Account Number: 11594

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

CAT				Dry		
No.	Analysis Name	C3 C 37 1	Dry	Method		Dilution
	1 1	CAS Number	Result	Detection	Units	Factor
00159	Mercury	7439-97-6	0.146	Limit		
01643	Aluminum	7429-90-5	0.146	0.109	mg/kg	1
01650	Calcium	7440-70-2	9,330.	21.8	mg/kg	1
01654	Iron	7439-89-6	21,800.	32.8	mg/kg	1
01657	Magnesium	7439-89-6	28,600.	21.8	mg/kg	1
01662	Potassium	7440-09-7	10,100.	27.3	mg/kg	1
01667	Sodium		1,580.	54.6	mg/kg	1
06925	Thallium	7440-23-5	187.	109.	mg/kg	1
06935	Arsenic	7440-28-0	1.98	1.09	mg/kg	1
06936	Selenium	7440-38-2	23.1	1.09	mg/kg	1
06944	Antimony	7782-49-2		1.09	mg/kg	1
06946	Barium	7440-36-0	1.12 J	6.55	mg/kg	1
06947	Beryllium	7440-39-3	1,850.	10.9	mg/kg	5
06949	Cadmium	7440-41-7	0.947	0.328	mg/kg	1
06951	Chromium	7440-43-9	41.6	2.18	mg/kg	1
06952	Cobalt	7440-47-3	18.7	4.37	mg/kg	1
06953	Copper	7440-48-4	10.2	5.46	mg/kg	1
06955	Lead	7440-50-8	99.9	4.37	mg/kg	1
06958	Manganese	7439-92-1	519.	10.9	mg/kg	1
06961	Nickel	7439-96-5	939.	2.18	mg/kg	1
06966	Silver	7440-02-0	18.4	5.46	mg/kg	1
06971	Vanadium	7440-22-4	1.36 J	2.18	mg/kg	1
06972	Zinc	7440-62-2	26.8	2.18	mg/kg	1
00111		7440-66-6	4,050.	10.9	mg/kg	5
	Moisture Code 086	n.a.	8.4	0.50	% %	1
	"Moisture" represents the los 103 - 105 degrees Celsius. Th as-received basis.	s in weight of the e moisture result	ne sample after reported above	r oven drying at		1
00394	as-received basis. pH Code 067			V** WII		
	5546 007	n.a.	6.0	0.010	Std.	1
	The pH was performed on a 1:1	slurry (25 gms.	of sample and	25 ml	Units	

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

No. Analysis Name

CAT

Method

Analysis
Trial# Date and Time

Analyst

Dilution Factor



Lancaster Laboratories, Inc. 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681

Analysis Report



Page 1 of 1

Lancaster Laboratories Sample No. SW 4541907

OU4-SS-03-COMP3(6-12) Soil Sample

RAL DePue Site

Collected: 06/06/2005

Account Number: 11594

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:16

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

03361 SDG#: DPU04-10

03 m				Dry		
CAT	N-1-1-1-1		Dry	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
06035				Limit		
06935	Arsenic	7440-38-2	23.5	1.13	mg/kg	1
00111	Moisture Code 086	n.a.	11.6	0.50	%	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	s in weight of t moisture resul	he sample aft t reported ab	er oven drying at		1
00394	pH Code 067	n.a.	6.5	0.010	Std.	1
	The pulling performed				Units	

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

CAT			01110	111010		
No.	Analysis Name	Method	Trial#	Analysis		Dilution
06935	Arsenic		IIIaI#	Date and Time	Analyst	Factor
00111		SW-846 6010B	1	06/15/2005 16:49	Donna R Sackett	1
	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:27	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 03:25	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 6010B	1	06/14/2005 20:00	Annamaria Stipkovits	1

Analysis Report



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Lancaster Laboratories Sample No. SW 4541908

OU4-SS-03-COMP3(12-18) Soil Sample

RAL DePue Site

Collected: 06/06/2005

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:16

Discard: 07/31/2005

O3312 SDG#: DPU04-11

Account Number: 11594

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method		Dilution
06935	3		result	Detection Limit	Units	Factor
	Arsenic	7440-38-2	20.5	1.13	ma /1.~	
00111	Moisture Code 086	n.a.	11.5	0 50	mg/kg	1
NE (ENERGY)	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	in weight of t moisture resul	he sample aft t reported ab	AND PROPERTY OF THE PROPERTY O	90	1
00394	pH Code 067	n.a.	7.2	0.010	Std.	1
	The pH was performed on a 1:1 s	lurry (25 gms.	of sample an	d 25 ml.	Units	

of deionized water) after being tumbled for 30 min.

CAT			01110	111010		
No. 06935 00111 00394	Analysis Name Arsenic Moisture Code 086 pH Code 067	Method SW-846 6010B EPA 160.3 modified SW-846 9045C (modified)	1	Analysis Date and Time 06/15/2005 16:54 06/13/2005 17:27 06/14/2005 03:25	Analyst Donna R Sackett Scott W Freisher Daniel S Smith	Dilution Factor 1 1
05700	SW SW846 ICP Digest	SW-846 6010B	1	06/14/2005 20:00	Annamaria Stipkovits	1



Lancaster Laboratories Sample No. SW 4541909

OU4-SS-03-COMP4(0-1) Soil Sample

RAL DePue Site

Collected: 06/06/2005 Acco

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:16

Discard: 07/31/2005

03401 SDG#: DPU04-12

Account Number: 11594

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

CAT			D	Dry		
No.	Analysis Name	CAS Number	Dry	Method		Dilution
210.	radiyolo Name	CAS Number	Result	Detection Limit	Units	Factor
00159	Mercury	7439-97-6	0.259	0.114	mg/kg	1
01643	Aluminum	7429-90-5	7,930.	22.7	mg/kg	1
01650	Calcium	7440-70-2	7,610.	34.1	mg/kg	1
01654	Iron	7439-89-6	22,100.	22.7	mg/kg	1
01657	Magnesium	7439-95-4	3,030.	28.4		1
01662	Potassium	7440-09-7	1,160.	56.8	mg/kg	
01667	Sodium	7440-23-5	122.	114.	mg/kg	1
06925	Thallium	7440-28-0	1.78	1.14.	mg/kg	1
06935		7440-38-2	12.1		mg/kg	1
06936		7782-49-2	1.58	1.14	mg/kg	1
06944	Antimony	7440-36-0	1.58 1.27 J	1.14	mg/kg	1
06946	Barium	7440-39-3		6.82	mg/kg	1
06947	Beryllium		1,390.	11.4	mg/kg	5
06949	Cadmium	7440-41-7	0.726	0.341	mg/kg	1
06951	Chromium	7440-43-9	30.0	2.27	mg/kg	1
06951		7440-47-3	23.7	4.55	mg/kg	1
	00001	7440-48-4	7.83	5.68	mg/kg	1
06953	Copper	7440-50-8	57.9	4.55	mg/kg	1
06955	Lead	7439-92-1	769.	11.4	mg/kg	1
06958	Manganese	7439-96-5	671.	2.27	mg/kg	1
06961	Nickel	7440-02-0	17.3	5.68	mg/kg	1
06966	Silver	7440-22-4	1.14 J	2.27	mg/kg	1
06971	Vanadium	7440-62-2	24.4	2.27	mg/kg	1
06972	Zinc	7440-66-6	2,480.	11.4	mg/kg	5
00111	Moisture Code 086	n.a.	12.0	0.50	%	1
	"Moisture" represents the loss	s in weight of t	he sample after	oven drying at	ř.	•
	103 - 105 degrees Celsius. The	moisture resul	t reported abov	e is on an		
	as-received basis.					
00394	pH Code 067	n.a.	6.5	0.010	Std.	1
	The pure series a				Units	

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

CAT No. Analysis Name

ysis Name Method

Analysis
Trial# Date and Time

Analyst

Dilution Factor



Analysis Report



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Lancaster Laboratories Sample No. SW 4541910

OU4-SS-03-COMP4(12-18) Soil Sample

RAL DePue Site

Collected: 06/06/2005

Account Number: 11594

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:16

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

03412 SDG#: DPU04-13*

CAT			Dry	Dry Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
06935	Arsenic	CENTRAL PORT OF SERV		Limit		
		7440-38-2	10.9	1.17	mg/kg	1
00111	Moisture Code 086	n.a.	14.6	0.50	8	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	in weight of t moisture resul	he sample aft t reported ab	er oven drying at ove is on an		-
00394	pH Code 067	n.a.	7.2	0.010	Std. Units	1

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

CAT		-				
	33			Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06935	Arsenic	SW-846 6010B	1	06/15/2005 17:03	Donna R Sackett	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:27	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 03:25	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 6010B	1	06/14/2005 20:00	Annamaria Stipkovits	1

Chain of Custody



CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Page 1 of 2

Deest # 11594 GOUD# 947016 SOMPLE # 4541898-910 Syracuse, NY 13214-0066

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	85534	AMPLERS: (Signiture)	٠	SAMPLEID	OU4-SS-03-COMP1(0-1)	OU4-SS-03-COMP1(1-8)	OU4-SS-03-COMP1(8-12)	OU4-SS-03-COMP2(0-1)	OU4-5S-03-COMP2(1-6)	0U4-SS-03-COMP2(6-12)	OU4-SS-03-COMP2(12-18)	OU4-SS-03-COMP3(0-1)	0U4-SS-03-COMP3(1-6)	OU4-SS-03-COMP3(6-12)	OU4-SS-03-COMP3(12-18)	OU4-SS-03-COMP4(0-1)
	PROJ. NO, PROJECT NAME GOC Number	15534	PROJECT NAME RAL DePue She 3: (Signifure)	PROJECT NAME RAL DePue Sha 3: (Signifure) Rad Depue Sha	PROJECT NAME RAL DePue She	PROJECT NAME	PROJECT NAME RAL DePue Sha Requested Analyzes SAMPLE ID DATE TIME MATRIX COMP. GRAB Cortainers 1 2 3 4 5 6 7 HOLD Cortainers Comp. Cortainers Comp. Cortainers Comp. Cortainers Cortainers Comp. Cortainers Comp. Cortainers Comp. Cortainers Cortainers Comp. Cortainers Comp. Cortainers Comp. Cortainers Comp. Cortainers Comp. Cortainers Comp. Cortainers Cortainers Comp. Comp. Comp. Cortainers Comp. Co	PROJECT NAME RAL DePue She Rational Part	PROJECT NAME PROJECT NAME RAL DePue Sha	PROJECT NAME PROJECT NAME RAL DePue She Requested Analyses Remarks Remarks Resolution Remarks Resolution Remarks Resolution Remarks Resolution Resol	PROJECT NAME PROJ	PROJECT NAME PROJ	PROJECT NAME PROJECT NAME RAL DePue Sha Ral DePue Sha	PROJECT NAME PROJ	PROJECT NAME PROJECT NAME State PROJECT NAME PROJECT NAM	Second S

Requested Analyses		Special Instructions/ Comments:	8	8 pecial QA/QC Instructions	tions
1. Metals		·		•	
2. 时					
3.			Laboratory Information and Receipt	Receipt	
4.		Lab Name: Lancaster Laboratories		Sample Receipt	scelot
6.		Shipping Tracking #	Cooler packed with ice		Tophan L
8.		Specify Tumaround Requirements:	Section of the sectio		Cooler Temp:
7.			H IBOR (POISO POISO IA)		Over 10.5°
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Syracuse, NY 13214-0066

(315) 446-9120

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Page 2 of 2

acc+ 11594 Croup#947016 Sample# 4541898-910

10 COC Number Remarks LASONIC ONLY TIME MATRIX COMP. GRAB Containers 1 2 3 4 8 8 7 HOLD Requested Analyses RAL DePue Site 80 6/2/2005 0:00 DATE PROJECT NAME OU4-SS-03-COMP4(12-18) SAMPLE (D SAMPLERS: (8igniture) 85534 PROJ. NO.

# 12 E 16 16	mments: Irements: Relinquish Relinquish	w ked w	Special QA/QC instructions and Receipt this is Sample Receipt: cal intex Condition/Cooler Temp: DATE TIME Received by: (8igneture) DATE TIME Received by: (8igneture)	
7		Refinquished by: (Signature) DATE	TIME Received by: (Signature)	

DATA REVIEW FOR

DEPUE REMOVAL ACTION LIMIT (RAL) ASSESSMENT DEPUE, ILLINOIS

SDG# DPU05

METALS ANALYSES

Analyses performed by:

Lancaster Laboratories, Inc. Lancaster, Pennsylvania

Review performed by:



Blasland, Bouck & Lee, Inc. Syracuse, New York Summary The following is an assessment of the data package for SDG# DPU05 for sampling from the RAL DePue Site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample			Δn	alysis		
Sample ID	Labib	WIGHTIX	Date	VOA	svoc	PCB	MET	PEST	MISC
RB053105-1	4541911	Water	5/31/2005				X		
RB053105-2	4541912	Water	5/31/2005				X		
RB060105-1	4541913	Water	6/1/2005				Х		
RB060105-2	4541914	Water	6/1/2005				X		
RB060205-1	4541915	Water	6/2/2005				X		
RB060205-2	4541916	Water	6/2/2005				X		
RB060305-1	4542525	Water	6/3/2005				X		
RB060305-2	4542526	Water	6/3/2005				X		
RB060605-1	4542527	Water	6/6/2005				X		
RB060605-2	4542528	Water	6/6/2005				Х		
RB060705-1	4542529	Water	6/7/2005				X		
RB060705-2	4542530	Water	6/7/2005				X		
RB060805-1	4544611	Water	6/8/2005				X		
RB060805-2	4544612	Water	6/8/2005				Х		
RB060905-1	4544613	Water	6/9/2005				X		
RB060905-2	4544614	Water	6/9/2005				Х		
RB061005-1	4544615	Water	6/10/2005				Χ		
RB061005-2	4544616	Water	6/10/2005				X		
RB061305-1	4544617	Water	6/13/2005				X		
RB061305-2	4544618	Water	6/13/2005				X		

METALS ANALYSES

<u>Introduction</u>

Analyses were performed according to USEPA 6000/7000. Data were reviewed in accordance with USEPA National Functional Guidelines of February 1994.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

Concentration (C) qualifiers:

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
- B The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).

Quantitation (Q) qualifiers:

- E The reported value is estimated due to the presence of interference.
- N Spiked sample recovery not within control limits.
- * Duplicate analysis not within control limits.

Validation qualifiers:

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for metals analyses is 180 days and for mercury is 28 days from sample receipt. Samples are required to be preserved at 4°C.

All samples were analyzed within the specified holding times.

Note: Sample temperatures were greater than the required preservation temperature of 4°C for samples collected on 5/31/05 through 6/7/05.

2. Blank Contamination

Quality assurance blanks, i.e., method or rinse blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks (including initial and continuing calibration blanks and preparation blanks) measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

All associated samples with this SDG were rinse blanks: therefore none of the data were qualified due to any method blank contamination.

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument continuing performance is satisfactory.

3.1 Initial Calibration

The correct number and type of standards were analyzed and all initial calibration verification standard recoveries were within control limits.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within control limits.

3.3 CRDL Standard

All required analytes evaluated by the guidelines exhibited CDRL recoveries within the control limit with the exception of manganese and selenium. The CRDL standard of these analytes exhibited recoveries less than the control limit. No sample locations were associated with these CRDL standards; therefore, none of the data were qualified due to this deviation

3.4 ICP Interference Control Sample

All ICS recoveries were acceptable.

4. Matrix Spike/Laboratory Duplicate

Matrix spike and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 Matrix spike

No matrix spikes were performed within this SDG.

4.2 Laboratory Duplicate

No laboratory duplicates were performed within this SDG.

5. Field Duplicate

No field duplicates were performed within this SDG.

6. Laboratory Control Sample (LCS)

LCS recoveries were within control limits.

7. Serial Dilution

No serial dilutions were performed within this SDG.

8. Furnace QC

No furnace analyses were performed on the samples.

9. Method of Standard Additions (MSA)

No samples were analyzed following the method of standard additions.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

YES	NO	NA
X		
X		
X		
X		
X		
X		
X		
X		
X		
X		
		X
		X
		X
	X	
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		_
	X X X X X X X X X X X X X X X X X X X	X X X X X X X X X X X X X X X X X X X

Inorganic Data Validation Checklist	YES	NO	NA
Wang an angular ang banga manfarang di middin 20 day 20	X	INU	INA
Were mercury analyses performed within 28 days?	A		X
Were cyanide distillations performed within 14 days? Were other metal analysis performed within 6 months?	X		71
were other metal analysis performed within 6 months?			
Form I (Final Data)			
Are all forms complete?	X		
Are correct units indicated on Form I's?	X		
Are soil sample results for each parameter corrected for percent solids?	X		
Are all "less than IDL" values properly coded with "U"?	X		
Are the correct concentration qualifiers on Form 1's?	X		
Is a physical description of samples given on Form I's?	X		
Calibration			
Is a record of at least 2 point calibration present for ICP analysis?	X		
Is a record of 5 point calibration present for Hg analysis?	X		
Is a record of 4 point calibration present for:			
Flame AA?			X
Furnace AA?			X
Cyanides?			X
Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses?			X
Is correlation coefficient less than .995 for:			
Mercury Analysis?		X	
Cyanide Analysis?			X
Atomic Absorption Analysis?			X
Form II A (Initial and Continuing Calibration Verification)			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits for:			
Metals (90-110%)?	X		
Hg (80-120%)?	X		
Cyanides (85-115%)?			X
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Was the ICV for cyanides distilled?			X
	<u> </u>		
Form II B (CRDL Standards for AA and ICP)			
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?	X		
Was a mid-range calibration verification standard distilled and analyzed for cyanide analysis?			X

Inorganic Data Validation Checklist		1,70	
	YES	NO	NA
Was a 2xCRDL (or 2xIDL when IDL>CRDL) standard (CRI) analyzed for each ICP run?	X		X
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB, and twice every eight hours for each ICP run?	X		X
Are CRA and CRI standards within control limits for metals (60-120%)?		X	
Is mid-range standard within control limits for cyanide (80-120%)			X
Form III (Initial and Continuing Calibration Blanks)			
Present and complete?	X		
Was an initial calibration blank analyzed?	X		
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks (when IDL <crdl) (crdls)?<="" contract="" detection="" equal="" less="" limits="" or="" required="" td="" than="" the="" to=""><td>X</td><td></td><td></td></crdl)>	X		
Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?	X		
Form III (Preparation Blank)			
Was one prep. blank analyzed for:			
each Sample Delivery Group SDG)?	X		
each batch of digested samples?	X		
each matrix type?	X		
Is concentration of prep. blank value less than the CRDL (when IDL≤CRDL)?	X		
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	X		
Is concentration of prep. blank value less than two times IDL (when IDL>CRDL)?		X	
Is concentration of prep. blank below the negative CRDL?		X	
Form IV (ICP Interference Check Sample)			
Present and complete?	X		
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	X		
Are all ICS results inside the control limits (±20%)?	X		
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?			X
Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation			
Present and complete for:			
each SDG?		X	
each matrix type?		X	
Was field blank used for spiked sample?		X	
Are all recoveries for analytes with sample concentrations less than four times the spike			X

Inorganic Data Validation Checklist	YES	NO	NA
concentration within control limits (75-125)?	YES	NO	NA NA
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?			X
Aqueous			
Are any spike recoveries:			
less than 30%?			X
between 30-74%?			X
between 126-150%?			X
greater then 150%?			X
Soil/Sediment			
Are any spike recoveries:			
less than 10%?			X
between 10-74%?			X
between 126-200%?			X
greater than 200%?			X
Form VI (Lab Duplicates)			
Present and complete for:			
each SDG?		X	
each matrix type?		X	
Was field blank used for duplicate analysis?		X	
Are all values within control limits (RPD 20% or difference ≤ ±CRDL)?			X
If no, are all results outside the control limits flagged with an * on Form I's and VI?			X
<u>Aqueous</u>			
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?			X
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) >35 %?			X
Is any difference between sample and duplicate (where sample and/or duplicate is less than $5xCRDL$) > $2xCRDL$?			X
Field Duplicates			
Were field duplicates analyzed?		X	
Aqueous			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5xCRDL?			X
			X

Inorganic Data Validation Checklist	1	1776	1
Is any difference between sample and duplicate greater than CRDL where sample and/or	YES	NO	NA
duplicate is less than 5xCRDL?			
<u>Soil/Sediment</u>			
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?			X
Is any difference between sample and duplicate (where sample and/or duplicate is less than $5x$ CRDL) $>2x$ CRDL?			X
Form VII (Laboratory Control Sample)			
Was one LCS prepared and analyzed for:			
each SDG?	X		
each batch samples digested/distilled?	X		
Aqueous LCS			
Is any LCS recovery:			
less than 50%?		X	
between 50% and 79%?		X	
between 121% and 150%?		X	
greater than 150%?		X	
Solid LCS			
Is LCS "Found" value higher than the control limits?			X
Is LCS "Found" lower than the control limits?			X
Form IX (ICP Serial Dilution)			
Was Serial Dilution analysis performed for:			
each SDG?		X	
each matrix type?		X	
Was field blank(s) used for Serial Dilution Analysis?		X	
Are results outside control limits flagged with an "E"" on Form I's and Form IX when the initial concentration on Form IX is equal to 50 times IDL or greater.		X	
Are any required % difference values:			
> 10%?			X
≥100%?			X
Furnace Atomic Absorption (AA) QC Analysis			
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?			X
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?			X
Were dilutions analyzed for samples with analytical spike recovery less than 40%?			X

Inorganic Data Validation Checklist			
	YES	NO	NA
Is analytical spike recovery outside the control limits (85-115%) for any sample?			X
Form VIII (Method of Standard Addition Results)			
Present?			X
If no, is any Form I result coded with "S" or "+"?			X
Was MSA required for any sample but not performed?			X
Is the coefficient of correlation for MSA less than 0.995 for any sample?			X
Is the coefficient of correlation for MSA less than 0.990 for any sample?			X
Was proper quantitation procedure followed?			X
Dissolved/Total for Inorganic/Total Analytes			
Were any analyses performed for dissolved as well as total analytes on the same sample.			X
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if >CRDL)			X
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?			X
Field Blank			
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?			X
If no, was field blank value already rejected due to other QC criteria?			X
Form X, XI, XII (Verification of Instrumental Parameters)			
Is verification report present for :			
Instrument Detection Limits (quarterly)?	X		
ICP Interelement Correlation Factors (annually)?	X		
ICP Linear Ranges (quarterly)?	X		
Is IDL greater than CRDL for any analyte?		X	
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.			X
Was any sample result higher than the linear range of ICP.		X	
Was any sample result higher than the highest calibration standard for non-ICP parameters?		X	
If yes for any of the above, was the sample diluted to obtain the result on Form I?			X
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?			X
< 10%?			X

Corrected Sample Analysis Data Sheets



Lancaster Laboratories Sample No. WW 4541912

RB053105-2 Grab Water Sample RAL DePue Site

Collected: 05/31/2005 07:00

by MF

Account Number: 11594

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:19

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

R5312 SDG#: DPU05-02RB

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
00259	Management		1001 18	Limit		
	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1
					3 To Table	

CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00259	Mercury	SW-846 6010B	1	06/14/2005 08:18	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/16/2005 23:39	John P Hook	1
01750	Calcium	SW-846 6010B	1		John P Hook	1
01754	Iron	SW-846 6010B	1		John P Hook	î
01757	Magnesium	SW-846 6010B	1		John P Hook	1
01762	Potassium	SW-846 6010B	1		Joanne M Gates	1
01767	Sodium	SW-846 6010B	1		Joanne M Gates	1
07022	Thallium	SW-846 6010B	1	06/15/2005 06:44	Joanne M Gagg 13	1
01754 01757 01762 01767	Iron Magnesium Potassium Sodium	SW-846 6010B SW-846 6010B SW-846 6010B SW-846 6010B SW-846 6010B	1 1 1 1 1 1	06/16/2005 23:39 06/17/2005 22:58 06/17/2005 22:58 06/15/2005 06:44 06/15/2005 06:44	John P Hoo John P Hoo John P Hoo Joanne M (Joanne M (ok ok ok Gates Gates





Lancaster Laboratories Sample No. WW 4541913

RB060105-1 Grab Water Sample RAL DePue Site

Collected:06/01/2005 07:00

by MF

Account Number: 11594

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:19

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

R6011 SDG#: DPU05-03RB

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
00259	Mercury	7420 07 4		Limit		
01743	Aluminum	7439-97-6	N.D.	0.00020	mg/l	1
		7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100		1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/1	1
07046	Barium	7440-39-3	N.D.	0.100	mg/1	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0025	mg/l	1
07051	Chromium	7440-47-3	N.D.		mg/l	1
07052	Cobalt	7440-48-4		0.0048	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0500	mg/l	1
07055	Lead		N.D.	0.0250	mg/l	1
07058	Manganese	7439-92-1	N.D.	0.0100	mg/l	1
07061		7439-96-5	N.D.	0.0100	mg/l	1
	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1

CAT		1	V U			
No.	Analysis Name	Method	Trial#	Analysis Date and Time	31	Dilution
00259	Mercury	SW-846 6010B			Analyst	Factor
01743	1		1	06/14/2005 08:19	Damary Valentin	1
	Aluminum	SW-846 6010B	1	06/16/2005 23:44	John P Hook	,
01750	Calcium	SW-846 6010B	3			1
01754	Iron		1	06/16/2005 23:44	John P Hook	1
		SW-846 6010B	1	06/17/2005 23:03	John P Hook	1
01757	Magnesium	SW-846 6010B	1	06/17/2005 23:03	John P Hook	,
01762	Potassium	SW-846 6010B	1			1
01767	Sodium		1	06/15/2005 06:49	Joanne M Gates	1
		SW-846 6010B	1	06/15/2005 06:49	Joanne M Gates	1
07022	Thallium	SW-846 6010B	1	06/15/2005 06:49		-
				00/15/2005 06:49	Joanne M Gates	1





Lancaster Laboratories Sample No. WW 4541914

RB060105-2 Grab Water Sample RAL DePue Site

Collected:06/01/2005 07:00

by MF

Account Number: 11594

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:19

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

R6012 SDG#: DPU05-04RB

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
00259	Mercury	7439-97-6	(17 m)	Limit		
01743	Aluminum	생생일까지 기계하다 되었다.	N.D.	0.00020	mg/l	1
01750		7429-90-5	N.D.	0.200	mg/l	1
	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/1	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020		1
07071	Vanadium	7440-62-2	N.D.		mg/l	1
07072	Zinc	7440-66-6		0.0020	mg/l	1
		0-00-01	N.D.	0.0250	mg/l	1

		CITTO	IIICIC		
Applysis Non-			Analysis		Dilution
the state of the s	Method	Trial#	Date and Time	Analyst	Factor
Mercury	SW-846 6010B	1	06/14/2005 08:20		1
Aluminum	SW-846 6010B	3			1
Calcium	SW-846 6010B	1			1
Iron		1			1
		1	06/17/2005 23:09	John P Hook	1
	SW-846 6010B	1	06/17/2005 23:09	John P Hook	1
	SW-846 6010B	1	06/15/2005 06:53		î
Sodium	SW-846 6010B	1			,
Thallium		1			1
	0.0 010 00108	1	06/13/2005 06:53	Joanne M Gawa 17	1
	Calcium Iron Magnesium Potassium Sodium	Analysis Name Method Mercury SW-846 6010B Aluminum SW-846 6010B Calcium SW-846 6010B Iron SW-846 6010B Magnesium SW-846 6010B Potassium SW-846 6010B Sodium SW-846 6010B	Analysis Name Method Trial* Mercury SW-846 6010B 1 Aluminum SW-846 6010B 1 Calcium SW-846 6010B 1 Iron SW-846 6010B 1 Magnesium SW-846 6010B 1 Potassium SW-846 6010B 1 Sodium SW-846 6010B 1 Sodium SW-846 6010B 1	Analysis Name Method Trial* Date and Time Mercury SW-846 6010B 1 06/14/2005 08:20 Aluminum SW-846 6010B 1 06/16/2005 23:49 Calcium SW-846 6010B 1 06/16/2005 23:49 Iron SW-846 6010B 1 06/17/2005 23:09 Magnesium SW-846 6010B 1 06/17/2005 23:09 Potassium SW-846 6010B 1 06/15/2005 06:53 Sodium SW-846 6010B 1 06/15/2005 06:53	Analysis Name Method Trial* Date and Time Analyst Mercury SW-846 6010B 1 06/14/2005 08:20 Damary Valentin Aluminum SW-846 6010B 1 06/16/2005 23:49 John P Hook Calcium SW-846 6010B 1 06/16/2005 23:49 John P Hook Iron SW-846 6010B 1 06/17/2005 23:09 John P Hook Magnesium SW-846 6010B 1 06/17/2005 23:09 John P Hook Potassium SW-846 6010B 1 06/15/2005 06:53 Joanne M Gates Sodium SW-846 6010B 1 06/15/2005 06:53 Joanne M Gates





Lancaster Laboratories Sample No. WW 4541915

RB060205-1 Grab Water Sample RAL DePue Site

Collected:06/02/2005 07:00

by MF

Account Number: 11594

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:19

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

Discard: 07/31/2005

R6021 SDG#: DPU05-05RB

				As Received		
CAT	200-20 V 00		As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
00259	Mercury	7420 07 6		Limit		
01743	Aluminum	7439-97-6	N.D.	0.00020	mg/l	1
01750		7429-90-5	N.D.	0.200	mg/l	1
	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100		
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/1	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.		mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0015	mg/l	1
07052	Cobalt	7440-47-3		0.0048	mg/l	1
07053	Copper		N.D.	0.0500	mg/l	1
07055	Lead	7440-50-8	N.D.	0.0250	mg/l	1
07058		7439-92-1	N.D.	0.0100	mg/l	1
	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1

CAT		Laboratory	CIIIO			
No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution
00259 01743 01750 01754 01757 01762	Mercury Aluminum Calcium Iron Magnesium Potassium	SW-846 6010B SW-846 6010B SW-846 6010B SW-846 6010B SW-846 6010B SW-846 6010B	1 1 1 1	06/14/2005 08:24 06/16/2005 23:53 06/16/2005 23:53 06/17/2005 23:14 06/17/2005 23:14	Damary Valentin John P Hook John P Hook John P Hook John P Hook	1 1 1 1 1 1
01767 07022	Sodium Thallium	SW-846 6010B SW-846 6010B	1	06/15/2005 06:58 06/15/2005 06:58 06/15/2005 06:58	Joanne M Gates Joanne M Gates Joanne M Gates	1





Lancaster Laboratories Sample No. WW 4541916

RB060205-2 Grab Water Sample RAL DePue Site

Collected:06/02/2005 07:00

by MF

Account Number: 11594

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:19

Blasland, Bouck & Lee 6723 Towpath Road, Box 66

Discard: 07/31/2005

Syracuse NY 13214-0066

R6022 SDG#: DPU05-06RB*

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
00259	Mercury	7430 07 6		Limit		
01743	Aluminum	7439-97-6	N.D.	0.00020	mg/l	1
		7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	-	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0350	mg/l	1
07055	Lead	7439-92-1	N.D.		mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0		0.0100	mg/l	1
07066	Silver	Color State Color Color Color	N.D.	0.0058	mg/l	1
07071	Vanadium	7440-22-4	N.D.	0.0020	mg/l	1
07072	Zinc	7440-62-2	N.D.	0.0020	mg/l	1
07072	ZINC	7440-66-6	N.D.	0.0250	mg/l	1

		ACCORDING TO STATE OF THE PARTY.			
Analysis Name	Method	m-ial#	Analysis		Dilution
		ILIAIM		Analyst	Factor
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	SW-846 6010B	1	06/14/2005 08:25	Damary Valentin	1
Aluminum	SW-846 6010B	1	06/16/2005 23:58		1
Calcium	SW-846 6010B	-			1
Tron		1		John P Hook	1
	SW-846 6010B	1	06/17/2005 23:19	John P Hook	1
Magnesium	SW-846 6010B	7	06/17/2005 23:19		
Potassium	SW-846 6010B	1			1
		1		John P Hook	1
	SW-846 6010B	1	06/15/2005 07:03	Joanne M Gates	1
Thallium	SW-846 6010B	1	06/15/2005 07:03	Joanne M Gates	1
	Analysis Name Mercury Aluminum Calcium Iron Magnesium Potassium Sodium Thallium	Mercury SW-846 6010B Aluminum SW-846 6010B Calcium SW-846 6010B Iron SW-846 6010B Magnesium SW-846 6010B Potassium SW-846 6010B Sodium SW-846 6010B	Analysis Name Method Trial# Mercury SW-846 6010B 1 Aluminum SW-846 6010B 1 Calcium SW-846 6010B 1 Iron SW-846 6010B 1 Magnesium SW-846 6010B 1 Potassium SW-846 6010B 1 Sodium SW-846 6010B 1 Sodium SW-846 6010B 1	Analysis Name Method Trial# Date and Time Mercury SW-846 6010B 1 06/14/2005 08:25 Aluminum SW-846 6010B 1 06/16/2005 23:58 Calcium SW-846 6010B 1 06/16/2005 23:58 Iron SW-846 6010B 1 06/17/2005 23:19 Magnesium SW-846 6010B 1 06/17/2005 23:19 Potassium SW-846 6010B 1 06/17/2005 23:19 Sodium SW-846 6010B 1 06/17/2005 23:19 Sodium SW-846 6010B 1 06/17/2005 23:19 Thallium	Analysis Name Method Trial# Date and Time Analyst Mercury SW-846 6010B 1 06/14/2005 08:25 Damary Valentin Aluminum SW-846 6010B 1 06/16/2005 23:58 John P Hook Calcium SW-846 6010B 1 06/16/2005 23:58 John P Hook Iron SW-846 6010B 1 06/17/2005 23:19 John P Hook Magnesium SW-846 6010B 1 06/17/2005 23:19 John P Hook Potassium SW-846 6010B 1 06/17/2005 23:19 John P Hook Sodium SW-846 6010B 1 06/15/2005 07:03 Joanne M Gates





Lancaster Laboratories Sample No. WW 4542525

RB060305-1 Grab Water Sample RAL DePue Site

Collected:06/03/2005 07:00

by AB

Account Number: 11594

Submitted: 06/13/2005 08:50

Reported: 06/30/2005 at 14:23

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

RB631 SDG#: DPU05-07RB

G > =				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
00259	Mercury	7439-97-6		Limit		
01743	Aluminum		N.D.	0.00020	mg/l	1
01750	Calcium	7429-90-5	N.D.	0.200	mg/l	1
		7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	0.412 J	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	
07036	Selenium	7782-49-2	N.D.	0.0100		1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/1	1
07046	Barium	7440-39-3	N.D.	0.100	mg/1	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0020	mg/l	1
07051	Chromium	7440-47-3	N.D.		mg/l	1
07052	Cobalt	7440-48-4		0.0048	mg/l	1
07053	Copper		N.D.	0.0500	mg/l	1
07055	Lead	7440-50-8	N.D.	0.0250	mg/l	1
07058		7439-92-1	N.D.	0.0100	mg/l	1
	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1

CAT		Daboratory	CITTO			
No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution
00259	Mercury Aluminum	SW-846 6010B	1	06/16/2005 08:51	Damary Valentin	Factor 1
01750	Calcium	SW-846 6010B SW-846 6010B	1	06/17/2005 20:40 06/17/2005 20:40	John P Hook John P Hook	1
01754 01757	Iron Magnesium	SW-846 6010B SW-846 6010B	1	06/17/2005 20:40	John P Hook	1
01762	Potassium Sodium	SW-846 6010B	1	06/17/2005 20:40 06/17/2005 20:40	John P Hook John P Hook	1
07022	Thallium	SW-846 6010B SW-846 6010B	1	06/17/2005 20:40 06/17/2005 20:40	John P Hook John P Hook	1
			-	,, 2003 20.40	John P Hook	1





Lancaster Laboratories Sample No. WW 4542526

RB060305-2 Grab Water Sample RAL DePue Site

Collected:06/03/2005 07:00

by AB

Account Number: 11594

Submitted: 06/13/2005 08:50 Reported: 06/30/2005 at 14:23

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

RB632 SDG#: DPU05-08RB

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
00259	Mercury			Limit		
01743	Aluminum	7439-97-6	N.D.	0.00020	mg/l	1
		7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/1	1
01762	Potassium	7440-09-7	0.0438 J	0.500	mg/1	1
01767	Sodium	7440-23-5	0.422 J	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	200 00000000000000000000000000000000000	
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.		mg/l	1
07061	Nickel	7440-02-0		0.0100	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0058	mg/l	1
07071	Vanadium		N.D.	0.0020	mg/l	1
07072	Zinc	7440-62-2	N.D.	0.0020	mg/l	1
2.0.2	2410	7440-66-6	N.D.	0.0250	mg/l	1

CAT		_		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	
00259	Mercury	SW-846 6010B	1	06/16/2005 08:53		Factor
01743	Aluminum	SW-846 6010B	1	06/17/2005 20:45	Damary Valentin	1
01750	Calcium	SW-846 6010B			John P Hook	1
01754	Iron	SW-846 6010B	_	06/17/2005 20:45	John P Hook	1
01757	Magnesium		1	06/17/2005 20:45	John P Hook	1
01762	Potassium	SW-846 6010B	1	06/17/2005 20:45	John P Hook	1
01767	Let the state of t	SW-846 6010B	1	06/17/2005 20:45	John P Hook	1
	Sodium	SW-846 6010B	1	06/17/2005 20:45	John P Hook	1
07022	Thallium	SW-846 6010B	1	06/17/2005 20:45	John P Hook	1





Lancaster Laboratories Sample No. WW 4542527

RB060605-1 Grab Water Sample RAL DePue Site

Collected:06/06/2005 07:00

by AB

Account Number: 11594

Submitted: 06/13/2005 08:50 Reported: 06/30/2005 at 14:23

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

RB661 SDG#: DPU05-09RB

CAT				As Received		
No.	Analysis Name		As Received	Method		Dilution
NO.	Analysis Name	CAS Number	Result	Detection	Units	Factor
00259	Mercury	7439-97-6	¥* 5	Limit		
01743	Aluminum		N.D.	0.00020	mg/l	1
01750	Calcium	7429-90-5	N.D.	0.200	mg/l	1
01754	Iron	7440-70-2	N.D.	0.200	mg/l	1
01757	Magnesium	7439-89-6	N.D.	0.100	mg/l	1
01762	Potassium	7439-95-4	N.D.	0.100	mg/l	1
		7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	0.412 J	0.600	mg/1	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.0015		1
07051	Chromium	7440-47-3	N.D.	0.0013	mg/1	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.		mg/l	1
07055	Lead	7439-92-1	N.D.	0.0250	mg/l	1
07058	Manganese	7439-96-5		0.0100	mg/l	1
07061	Nickel		N.D.	0.0100	mg/l	1
07066	Silver	7440-02-0	N.D.	0.0058	mg/l	1
07071	Vanadium	7440-22-4	N.D.	0.0020	mg/l	1
07072	Zinc	7440-62-2	N.D.	0.0020	mg/l	1
0/0/2	ZINC	7440-66-6	N.D.	0.0250	mg/l	1

CAT						
No.	Analysis Name	Method	Trial#	Analysis	2002	Dilution
00259	Mercury		TITAL	Date and Time	Analyst	Factor
		SW-846 6010B	1	06/16/2005 08:54	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/17/2005 20:49	John P Hook	
01750	Calcium	SW-846 6010B	1			1
01754	Iron		1	06/17/2005 20:49	John P Hook	1
01757		SW-846 6010B	1	06/17/2005 20:49	John P Hook	1
	Magnesium	SW-846 6010B	1	06/17/2005 20:49	John P Hook	1
01762	Potassium	SW-846 6010B	1	06/17/2005 20:49		1
01767	Sodium	SW-846 6010B	-		John P Hook	1
07022	Thallium		1	06/17/2005 20:49	John P Hook	1
0,022	mailium	SW-846 6010B	1	06/17/2005 20:49	John P Hook 8829	1





Lancaster Laboratories Sample No. WW 4542528

RB060605-2 Grab Water Sample RAL DePue Site

Collected:06/06/2005 07:00

by AB

Account Number: 11594

Submitted: 06/13/2005 08:50 Reported: 06/30/2005 at 14:23

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

RB662 SDG#: DPU05-10RB

C) C				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/1	1
01754	Iron	7439-89-6	1.82	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/1	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/1	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	0.00049 J	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	0.0252	0.0048	mg/l	
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	0.0028 J	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100		1
07058	Manganese	7439-96-5	0.0448	0.0100	mg/1	1
07061	Nickel	7440-02-0	0.0116	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/1	1
07071	Vanadium	7440-62-2	0.0024		mg/l	1
07072	Zinc	7440-66-6	0.0056 J	0.0020 0.0250	mg/l mg/l	1

CAT		Laboratory	CIIIO	micie		
No.	Analysis Name	Method	Trial#	Analysis Date and Time		Dilution
00259	Mercury Aluminum	SW-846 6010B	1	06/16/2005 08:55	Analyst Damary Valentin	Factor 1
01750 01754	Calcium	SW-846 6010B SW-846 6010B	1	06/17/2005 20:54 06/17/2005 20:54	John P Hook John P Hook	1
01754	Iron Magnesium	SW-846 6010B SW-846 6010B	1	06/17/2005 20:54 06/17/2005 20:54	John P Hook	1
01762	Potassium Sodium	SW-846 6010B SW-846 6010B	1	06/17/2005 20:54	John P Hook John P Hook	1
07022	Thallium	SW-846 6010B		06/17/2005 20:54 06/17/2005 20:54	John P Hook John P Hook	1
					IEBB	





Lancaster Laboratories Sample No. WW 4542529

RB060705-1 Grab Water Sample RAL DePue Site

Collected:06/07/2005 07:00

by AB

Account Number: 11594

Submitted: 06/13/2005 08:50 Reported: 06/30/2005 at 14:24

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

RB671 SDG#: DPU05-11RB

				As Received		
CAT	**************************************		As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/1	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	-
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	
07047	Beryllium	7440-41-7	N.D.	0.0020		1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0013		1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/1	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0250	mg/l	1
07058	Manganese	7439-96-5	N.D.		mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0100	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0058	mg/l	1
07071	Vanadium	7440-22-4		0.0020	mg/l	1
07072	Zinc		N.D.	0.0020	mg/l	1
		7440-66-6	0.0053 J	0.0250	mg/l	1

C a m		Laboracory	CILLO	111616		
CAT				Analysis		Dilution
No.	Analysis Name	Method	Trial#	-	Analyst	Factor
00259	Mercury	SW-846 6010B	1	06/16/2005 08:57		Factor
01743	Aluminum	SW-846 6010B	î	: [1] 12 [1] 12 [1] 12 [1] 13 [1] 13 [1] 13 [1] 13 [1] 13 [1] 13 [1] 13 [1] 13 [1] 13 [1] 13 [1] 13 [1] 13 [1]	Damary Valentin	1
01750	Calcium	SW-846 6010B	1	06/17/2005 20:59	John P Hook	1
01754	Iron		1	06/17/2005 20:59	John P Hook	1
01757		SW-846 6010B	1	06/17/2005 20:59	John P Hook	1
	Magnesium	SW-846 6010B	1	06/17/2005 20:59	John P Hook	1
01762	Potassium	SW-846 6010B	1	06/17/2005 20:59	John P Hook	1
01767	Sodium	SW-846 6010B	1	06/17/2005 20:59	John P Hook	1
07022	Thallium	SW-846 6010B	1			1
			_	00/11/2005 20:59	John P Hook 2833	1





Lancaster Laboratories Sample No. WW 4542530

RB060705-2 Grab Water Sample RAL DePue Site

Collected:06/07/2005 07:00 by AB

Account Number: 11594

Submitted: 06/13/2005 08:50 Reported: 06/30/2005 at 14:24

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

RB672 SDG#: DPU05-12RB

				As Received		
CAT	201 201 201 10		As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/1	1
07072	Zinc	7440-66-6	0.0067 J	0.0250	mg/l	1

CAR						
CAT	A CONTRACT OF THE CONTRACT OF			Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00259	Mercury	SW-846 6010B	1	06/16/2005 08:58	Damary Valentin	ractor
01743	Aluminum	SW-846 6010B	1	06/17/2005 21:04	John P Hook	1
01750	Calcium	SW-846 6010B	1	06/17/2005 21:04		1
01754	Iron	SW-846 6010B	3		John P Hook	1
01757	Magnesium	SW-846 6010B	1	06/17/2005 21:04	John P Hook	1
01762	Potassium		1	06/17/2005 21:04	John P Hook	1
	the first of the second second	SW-846 6010B	1	06/17/2005 21:04	John P Hook	1
01767	Sodium	SW-846 6010B	1	06/17/2005 21:04	John P Hook	1
07022	Thallium	SW-846 6010B	1	06/17/2005 21:04	John P Hook 9935	1





Lancaster Laboratories Sample No. WW 4544611

RB060805-1 Grab Water Sample

RAL DePue Site

Collected:06/08/2005 07:00

by AB

Account Number: 11594

Submitted: 06/16/2005 09:00 Reported: 06/30/2005 at 14:24

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

68RB1 SDG#: DPU05-13RB

CAT				As Received		
No.	Analysis Name	5 200 200 C 100 C	As Received	Method		Dilution
	Andrysis name	CAS Number	Result	Detection	Units	Factor
00259	Mercury	7439-97-6	W 5	Limit	20	
01743	Aluminum		N.D.	0.00020	mg/l	1
01750	Calcium	7429-90-5	N.D.	0.200	mg/l	1
01754	Iron	7440-70-2	N.D.	0.200	mg/l	1
01757	Magnesium	7439-89-6	N.D.	0.100	mg/l	1
01762		7439-95-4	N.D.	0.100	mg/l	1
	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/1	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/1	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/1	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	
07046	Barium	7440-39-3	N.D.	0.100		1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.		mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0015	mg/l	1
07052	Cobalt	7440-48-4		0.0048	mg/l	1
07053	Copper	The second of the second	N.D.	0.0500	mg/l	1
07055	Lead	7440-50-8	N.D.	0.0250	mg/l	1
07058	Manganese	7439-92-1	N.D.	0.0100	mg/l	1
07061		7439-96-5	N.D.	0.0100	mg/l	1
	Nickel	7440-02-0	N.D.	0.0058	mg/1	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1

CAT		Laboratory	CIIIO	IIICIE		
No.	Analysis Name	Method	Trial#	Analysis		Dilution
00259	Mercury	SW-846 6010B	TTTGT#	Date and Time	Analyst	Factor
01743	Aluminum		1	06/20/2005 08:31	Damary Valentin	1
01750	Calcium	SW-846 6010B	1	06/21/2005 14:25	Eric L Eby	1
01754		SW-846 6010B	1	06/21/2005 14:25	Eric L Eby	1
	Iron	SW-846 6010B	1	06/21/2005 14:25	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	06/21/2005 14:25	Eric L Eby	1
01762	Potassium	SW-846 6010B	3	06/22/2005 12:28	4	1
01767	Sodium	SW-846 6010B	1		Joanne M Gates	1
07022	Thallium	SW-846 6010B	1	06/21/2005 14:25	Eric L Eby	1
		311 040 00108	1	06/21/2005 14:25	Eric L Eby 3839	1





Lancaster Laboratories Sample No. WW 4544612

RB060805-2 Grab Water Sample

RAL DePue Site

Collected:06/08/2005 07:00

by AB

Account Number: 11594

Submitted: 06/16/2005 09:00 Reported: 06/30/2005 at 14:24

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66

Syracuse NY 13214-0066

68RB2 SDG#: DPU05-14RB

CAT				As Received		
1951.0			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
00259	Mercury	7430 07 4	207720	Limit		
01743	Aluminum	7439-97-6	N.D.	0.00020	mg/l	1
01750	Calcium	7429-90-5	N.D.	0.200	mg/l	1
01754		7440-70-2	N.D.	0.200	mg/l	1
	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/1	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	
07049	Cadmium	7440-43-9	N.D.	0.0015	-	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.		mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0		0.0100	mg/l	1
07066	Silver	20010-0540-00-000	N.D.	0.0058	mg/l	1
07071	Vanadium	7440-22-4	N.D.	0.0020	mg/l	1
07072	Zinc	7440-62-2	N.D.	0.0020	mg/l	1
01012	DINC.	7440-66-6	0.0066 J	0.0250	mg/l	1

CAT			CITTO	111010		
No.	Analysis Name	Method	Trial#	Analysis	1200 21 10	Dilution
00259	Mercury		ILIGI#	Date and Time	Analyst	Factor
01743	The state of the s	SW-846 6010B	1	06/20/2005 08:32	Damary Valentin	1
	Aluminum	SW-846 6010B	1	06/21/2005 14:29	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	06/21/2005 14:29	The state of the s	1
01754	Iron	SW-846 6010B	1		Eric L Eby	1
01757	Magnesium		1	06/21/2005 14:29	Eric L Eby	1
01762		SW-846 6010B	1	06/21/2005 14:29	Eric L Eby	1
	Potassium	SW-846 6010B	1	06/21/2005 14:29	Eric L Eby	7
01767	Sodium	SW-846 6010B	1	06/21/2005 14:29	Eric L Eby	÷
07022	Thallium	SW-846 6010B	1			1
		54-540 0010B	1	06/21/2005 14:29	Eric L Eby 图14	1 1





Lancaster Laboratories Sample No. WW 4544613

RB060905-1 Grab Water Sample

RAL DePue Site

Collected:06/09/2005 07:00

by AB

Account Number: 11594

Submitted: 06/16/2005 09:00

Reported: 06/30/2005 at 14:24

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

Discard: 07/31/2005

69RB1 SDG#: DPU05-15RB

G1 G				As Received		
CAT	4.14.70 Ex.		As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
00259	Mercury	2420 07 6		Limit		
01743	Aluminum	7439-97-6	N.D.	0.00020	mg/l	1
01750	Calcium	7429-90-5	N.D.	0.200	mg/l	1
		7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/1	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/1	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100		1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/1	1
07061	Nickel	7440-02-0	N.D.		mg/l	1
07066	Silver	7440-22-4	N.D.	0.0058	mg/l	1
07071	Vanadium			0.0020	mg/l	1
07072	Zinc	7440-62-2	N.D.	0.0020	mg/l	1
	o and	7440-66-6	N.D.	0.0250	mg/l	1

CAT		Dabolacoly	CHILO	IIICIE		
No.	Anning to Man			Analysis		Dilution
	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00259	Mercury	SW-846 6010B	1	06/20/2005 08:34	Damary Valentin	Factor
01743	Aluminum	SW-846 6010B	1	06/21/2005 14:33	Eric L Eby	1
01750	Calcium	SW-846 6010B	1			1
01754	Iron	SW-846 6010B		06/21/2005 14:33	Eric L Eby	1
01757	Magnesium		1	06/21/2005 14:33	Eric L Eby	1
		SW-846 6010B	1	06/21/2005 14:33	Eric L Eby	1
01762	Potassium	SW-846 6010B	1	06/21/2005 14:33	Eric L Eby	1
01767	Sodium	SW-846 6010B	1	06/21/2005 14:33	Eric L Eby	1
07022	Thallium	SW-846 6010B	1		•	1
		0.000	_	06/21/2005 14:33	Eric L Eby 0843	1





Lancaster Laboratories Sample No. WW 4544614

RB060905-2 Grab Water Sample

RAL DePue Site

Collected:06/09/2005 07:00

by AB

Account Number: 11594

Submitted: 06/16/2005 09:00 Reported: 06/30/2005 at 14:24

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

Discard: 07/31/2005

69RB2 SDG#: DPU05-16RB

CAT				As Received		
No.	33		As Received	Method		Dilution
	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/1	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/1	
07044	Antimony	7440-36-0	N.D.	0.0600	mg/1	1
07046	Barium	7440-39-3	N.D.	0.100		1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/1	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/1	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.		mg/l	1
07055	Lead	7439-92-1	N.D.	0.0250	mg/l	1
07058	Manganese	7439-96-5	0.00096 J	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0100	mg/l	1
07066	Silver	7440-22-4		0.0058	mg/l	1
07071	Vanadium	7440-22-4	N.D.	0.0020	mg/l	1
07072	Zinc		N.D.	0.0020	mg/l	1
		7440-66-6	N.D.	0.0250	mg/l	1

CAT		- and or a cory	CITTO	111016		
No.	Analysis Name	Method		Analysis	61 286	Dilution
00259	Mercury		Trial#	Date and Time	Analyst	Factor
		SW-846 6010B	1	06/20/2005 08:35	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/21/2005 14:37	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	06/21/2005 14:37		1
01754	Iron	SW-846 6010B	÷		Eric L Eby	1
01757	Magnesium		1	06/21/2005 14:37	Eric L Eby	1
	-	SW-846 6010B	1	06/21/2005 14:37	Eric L Eby	1
01762	Potassium	SW-846 6010B	1	06/21/2005 14:37	Eric L Eby	1
01767	Sodium	SW-846 6010B	1	06/21/2005 14:37		_
07022	Thallium	SW-846 6010B	-		Eric L Eby	1
		24-040 6010B	1	06/21/2005 14:37	Eric L Eby 0845	1





Lancaster Laboratories Sample No. WW 4544615

RB061005-1 Grab Water Sample

RAL DePue Site

Collected:06/10/2005 07:00

by AB

Account Number: 11594

Submitted: 06/16/2005 09:00 Reported: 06/30/2005 at 14:24

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

610R1 SDG#: DPU05-17RB

				As Received		
CAT			As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
00259	Mercury			Limit		
01743	Aluminum	7439-97-6	N.D.	0.00020	mg/l	1
		7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/1	
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020		1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.		mg/l	1
			N.D.	0.0250	mg/l	1

CAT			-	Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
00259	Mercury	SW-846 6010B	1	06/20/2005 08:36	Damary Valentin	FACTOL
01743	Aluminum	SW-846 6010B	_	06/21/2005 14:41	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	06/21/2005 14:41	Eric L Eby	1
01754	Iron	SW-846 6010B	1	06/21/2005 14:41	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	06/21/2005 14:41	Eric L Eby	1
01762	Potassium	SW-846 6010B	1	06/21/2005 14:41	Eric L Eby	1
01767	Sodium	SW-846 6010B	1	06/21/2005 14:41	Eric L Eby	1
07022	Thallium	SW-846 6010B	1	06/21/2005 14:41	Eric L Eby 2847	1





Lancaster Laboratories Sample No. WW 4541911

RB053105-1 Grab Water Sample RAL DePue Site

Collected:05/31/2005 07:00

by MF

Account Number: 11594

Submitted: 06/10/2005 08:55 Reported: 06/30/2005 at 15:18

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

Discard: 07/31/2005

R5311 SDG#: DPU05-01RB

03 m				As Received		
CAT	0.00		As Received	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
00259	Mercury	7420 07 6		Limit		
01743	Aluminum	7439-97-6	N.D.	0.00020	mg/l	1
01750		7429-90-5	N.D.	0.200	mg/l	1
	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	2
07022	Thallium	7440-28-0	N.D.	0.0100	- Total Co.	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.		mg/l	1
07044	Antimony	7440-36-0		0.0100	mg/l	1
07046	Barium		N.D.	0.0600	mg/l	1
07047	Beryllium	7440-39-3	N.D.	0.100	mg/l	1
07049	Cadmium	7440-41-7	N.D.	0.0020	mg/l	1
07051		7440-43-9	N.D.	0.0015	mg/l	1
	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	-	1
07061	Nickel	7440-02-0	N.D.		mg/l	1
07066	Silver	7440-22-4	N.D.	0.0058	mg/l	1
07071	Vanadium			0.0020	mg/l	1
07072	Zinc	7440-62-2	N.D.	0.0020	mg/l	1
	W-4.10	7440-66-6	N.D.	0.0250	mg/l	1

CAT			-			
No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution
00259	Mercury	SW-846 6010B	1		CONTRACTOR OF THE PROPERTY OF	Factor
01743	Aluminum		. 1	06/14/2005 08:17	Damary Valentin	1
		SW-846 6010B	1	06/16/2005 23:34	John P Hook	1
01750	Calcium	SW-846 6010B	1			1
01754	Iron		1	06/16/2005 23:34	John P Hook	1
01757		SW-846 6010B	1	06/16/2005 23:34	John P Hook	1
	Magnesium	SW-846 6010B	1	06/17/2005 22:53	John P Hook	
01762	Potassium	SW-846 6010B				1
01767	Sodium		1	06/15/2005 06:39	Joanne M Gates	1
		SW-846 6010B	1	06/15/2005 06:39	Joanne M Gates	1
07022	Thallium	SW-846 6010B	1	06/15/2005 06:39		1
			•	00/13/2003 06:39	Joanne M Gates	1



Chain of Custody

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories

Acct # 11594 Group#947017 Sample # 4541911-16

COC # 0089710

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Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102 Rev. 10/27/02

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories

Acct. # 11594 Group# 947124 Sample # 4542535-30

COC# 0089709

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Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (711),656-2300 (Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102 Rev. 10/27/02

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories

Acce # 11594 Groups 947647 Sample # 4544611-18 COC# 0089724 For Lancastar Laboratories use only

Please print. Instructions on reverse side correspond with circled numbers.

Time (9) Date Time Time Time For Lab Use Only FSC: SCR #: and a Date Date Date Date Remarks Time Received by: Received by: Time. Received by: Time Received by: Time Received by Time Cate Cate Date Date Date Date HELMIZE (t) Relinquished by: religguished by: Relinquished by: Relinquished by: Relinquished by: (If yes, indicate QC sample and submit triplicate volume.) Internal Chain of Custody required? Yes No SDG Complete? 0700 E-mail 0700 0700 0700 0700 6700 0700 Rush 0700 GLP Site-specific QC required? Yes No (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Yes PWSID#: Turnaround Time Requested (TAT) (please drde): Normal Quote #: Acct. #: P.O.# 6-8.05 \$0.89 6-13-05 70.01.7 69.05 6-16.05 618.05 Fax 1.9.05 Data Package Options (please circle if required) Name of state where samples were collected: Project Manager: ANKY CERSKY Fax #: Type VI (Raw Data) Rush results requested by (please circle): Project Name/#: Defue 11 AMM SAIRS R & OGOBOS- 2 66060905-2 £6061305-2 R8 0609 05-RS 06 1005-2 Other 26 06 1305- (RBOLOGOS-1 R6041005-1 Date results are needed: Type IE (NJ Red. Del.) E-mail address; Type (Tier!)
Type (Stier!!) Sampler: Type IV (CLP) QC Summary Client 8

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102 Rev. 10/27/02

DATA REVIEW FOR

DEPUE REMOVAL ACTION LIMIT (RAL) ASSESSMENT DEPUE, ILLINOIS

SDG# DPU06

METALS ANALYSES

Analyses performed by:

Lancaster Laboratories, Inc. Lancaster, Pennsylvania

Review performed by:



Blasland, Bouck & Lee, Inc. Syracuse, New York Summary The following is an assessment of the data package for SDG#DPU06 for sampling from the RAL DePue Site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample			Ana	alysis		
			Date	VOA	svoc	PCB	MET	PEST	MISC
OU4-SS-04-COMP1(0-1)	4542494	Soil	6/3/2005				X		
OU4-SS-04-COMP1(1-6)	4542495	Soil	6/3/2005				X		
OU4-SS-04-COMP1(6-12)	4542496	Soil	6/3/2005				Χ¹		
OU4-SS-04-COMP2(0-1)	4542497	Soil	6/3/2005				X		
OU4-SS-04-COMP2(1-6)	4542498	Soil	6/3/2005				X		
OU4-SS-04-COMP2(12-18)	4542499	Soil	6/3/2005				X		
OU4-SS-04-COMP3(0-1)	4542500	Soil	6/3/2005				X		
OU4-SS-04-COMP3(1-6)	4542501	Soil	6/3/2005				X		
OU4-SS-04-COMP4(0-1)	4542502	Soil	6/2/2005				X		
OU4-SS-04-COMP4(1-6)	4542503	Soil	6/2/2005				X		
OU4-SS-04-COMP5(1-6)	4542504	Soil	6/2/2005				X		
OU4-SS-04-COMP5(12-18)	4542505	Soil	6/2/2005				X		
OU4-SS-04-COMP6(0-1)	4542506	Soil	6/3/2005				X		
OU4-SS-04-COMP6(1-6)	4542507	Soil	6/3/2005				X		

¹ MS/MSD analysis performed on sample.

METALS ANALYSES

<u>Introduction</u>

Analyses were performed according to USEPA 6000/7000. Data were reviewed in accordance with USEPA National Functional Guidelines of February 1994.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

Concentration (C) qualifiers:

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
- B The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).

Quantitation (Q) qualifiers:

- E The reported value is estimated due to the presence of interference.
- N Spiked sample recovery not within control limits.
- * Duplicate analysis not within control limits.

Validation qualifiers:

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for metals analyses is 180 days and for mercury is 28 days from sample receipt. Samples are required to be preserved at 4°C.

All samples were analyzed within the specified holding times.

Note: Sample temperatures were greater than the required preservation temperature of 4°C.

2. Blank Contamination

Quality assurance blanks, i.e., method or rinse blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks (including initial and continuing calibration blanks and preparation blanks) measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

Barium, cadmium, calcium, chromium, cooper, iron, magnesium, manganese, potassium and zinc were detected above the method detection limit in the method blank and/or the calibration blank. All associated sample results were greater than the blank action limit; therefore, none of the data were qualified.

Potassium was detected above the method detection limit in the associated rinse blank (RB060305-2) collected on 6/3/05 and associated with SDG#DPU05. All associated sample results were greater than the blank action limit; therefore, none of the data were qualified

Sodium was detected above the method detection limit in the associated rinse blanks (RB060305-1 and RB060305-2) collected on 6/3/05 and associated with SDG#DPU05. All associated sample results were greater than the blank action limit; therefore, none of the data were qualified

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument continuing performance is satisfactory.

3.1 Initial Calibration

The correct number and type of standards were analyzed and all initial calibration verification standard recoveries were within control limits.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within control limits.

3.3 CRDL Standard

All required analytes evaluated by the guidelines exhibited CDRL recoveries within the control limit with the exception of manganese and zinc. The CRDL standard of these analytes exhibited recoveries greater than the control limit. All associated sample locations exhibited concentrations greater than two times the reporting limit; therefore, none of the data were qualified due to this deviation.

3.4 ICP Interference Control Sample

All ICS recoveries were acceptable.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate

Matrix spike and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 Matrix Spike / Matrix Spike Duplicate (MS/MSD)

The MS/MSD associated with barium, cadmium, chromium, cooper, lead, potassium and vanadium exhibited recoveries greater than control limits. All associated sample results for these analytes were qualified as estimated.

4.2 Laboratory Duplicate

The laboratory duplicate results associated with arsenic, cadmium, cooper, iron, lead, manganese, vanadium and zinc exhibited a percent difference greater than control limits. All associated sample results for these analytes were qualified as estimated.

5. Field Duplicate

No field duplicates associated within this SDG.

6. Laboratory Control Sample (LCS)

LCS recoveries were within control limits.

7. Serial Dilution

Although the serial dilution of cobalt was outside of control limits, the serial dilution was performed on sample location OU4-SS-04-COMP1(6-12) whose concentration of cobalt was less than the 50 times the instrument detection limit; therefore, none of the associated sample results were qualified.

The serial dilution result of potassium was greater than control limits. All associated sample results for potassium were qualified as estimated.

8. Furnace QC

No furnace analyses were performed on the samples.

9. Method of Standard Additions (MSA)

No samples were analyzed following the method of standard additions.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Inorganic Data Validation Checklist	YES	NO	NA
Data Completeness and Deliverables	X		
Is there a narrative or cover letter present?			_
Are the sample numbers included in the narrative?	X		
Are the sample chain-of-custodies present?	X		
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	X		
Is the package paginated?	X		
Are the forms and copies legible?	X		
Form I to IX			
Are all the Form I through Form IX labeled with:			
Laboratory name?	X		
Sample No.?	X		
SDG No.?	X		
Correct units?	X		
Matrix?	X		
Raw Data			
Is the digestion log for flame AA/ICP present?	X		
Is the digestion log for furnace AA present?			X
Is the distillation log for mercury present?			X
Is the distillation log for cyanides present?			X
Are pH values listed?			
pH for metals analyses <2 (waters)?			X
pH for cyanide analyses >12 (waters)?			X
Percent solids calculation present for soils/sediments?	X		
Are preparation dates present on sample preparation logs/bench sheets?	X		
Are the measurement read out records present for:			
ICP	X		
Flame AA			X
Furnace AA			X
Mercury	X		
Cyanides			X
Is the data legible?	X		
Is the data properly labeled?	X		
Holding Times			
4951P doc	X		

4851R doc JCi

Inorganic Data Validation Checklist	YES	NO	NA
Were mercury analyses performed within 28 days?			
Were cyanide distillations performed within 14 days?			X
Were other metal analysis performed within 6 months?	X		
Form I (Final Data)			
Are all forms complete?	X		
Are correct units indicated on Form I's?	X		
Are soil sample results for each parameter corrected for percent solids?	X		
Are all "less than IDL" values properly coded with "U"?	X		
Are the correct concentration qualifiers on Form 1's?	X		
Is a physical description of samples given on Form I's?	X		
<u>Calibration</u>			
Is a record of at least 2 point calibration present for ICP analysis?	X		
Is a record of 5 point calibration present for Hg analysis?	X		
Is a record of 4 point calibration present for:			
Flame AA?			X
Furnace AA?			X
Cyanides?			X
Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses?			X
Is correlation coefficient less than .995 for:			
Mercury Analysis?		X	
Cyanide Analysis?			X
Atomic Absorption Analysis?			X
Form II A (Initial and Continuing Calibration Verification)			
Present and complete for all analytes?	X		
Are all calibration standards (initial and continuing) within control limits for:			
Metals (90-110%)?	X		
Hg (80-120%)?	X		
Cyanides (85-115%)?			X
Was continuing calibration performed every 10 samples or every 2 hours?	X		
Was the ICV for cyanides distilled?			X
Form II B (CRDL Standards for AA and ICP)			
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?	X		
Was a mid-range calibration verification standard distilled and analyzed for cyanide analysis?			X

Inorganic Data Validation Checklist	YES	NO	NA
Was 2 CDDI (12 2 IDI alan IDI S CDDI) dan dad (CDI) and and Consult ICD and	TES	NO	INA
Was a 2xCRDL (or 2xIDL when IDL>CRDL) standard (CRI) analyzed for each ICP run?	X		_
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB, and twice every eight hours for each ICP run?	X		
Are CRA and CRI standards within control limits for metals (70-130%)?		X	
Is mid-range standard within control limits for cyanide (80-120%)			X
Form III (Initial and Continuing Calibration Blanks)			
Present and complete?	X		_
Was an initial calibration blank analyzed?	X		
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
Are all calibration blanks (when IDL <crdl) (crdls)?<="" contract="" detection="" equal="" less="" limits="" or="" required="" td="" than="" the="" to=""><td></td><td>X</td><td></td></crdl)>		X	
Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?			X
Form III (Preparation Blank)			
Was one prep. blank analyzed for:			
each Sample Delivery Group SDG)?	X		
each batch of digested samples?	X		
each matrix type?	X		
Is concentration of prep. blank value less than the CRDL (when IDL≤CRDL)?		X	
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	X		
Is concentration of prep. blank value less than two times IDL (when IDL>CRDL)?		X	
Is concentration of prep. blank below the negative CRDL?		X	
Form IV (ICP Interference Check Sample)			
Present and complete?	X		
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	X		
Are all ICS results inside the control limits (±20%)?	X		
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?			X
Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation			
Present and complete for:			
each SDG?	X		
each matrix type?	X		
Was field blank used for spiked sample?		X	
Are all recoveries for analytes with sample concentrations less than four times the spike	JCH		

Inorganic Data Validation Checklist	YES	NO	NA
concentration within control limits (75-125)?	1 LS		INA
		X	v
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?			X
Aqueous			
Are any spike recoveries:			
less than 30%?			X
between 30-74%?			X
between 126-150%?			X
greater then 150%?			X
Soil/Sediment			
Are any spike recoveries:			
less than 10%?		X	
between 10-74%?		X	
between 126-200%?	X		
greater than 200%?	X		
Form VI (Lab Duplicates)			
Present and complete for:			
each SDG?	X		
each matrix type?	X		
Was field blank used for duplicate analysis?		X	
Are all values within control limits (RPD 20% or difference ≤ ±CRDL)?		X	
If no, are all results outside the control limits flagged with an * on Form I's and VI?			X
Aqueous			
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?			X
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) >35 %?		X	
Is any difference between sample and duplicate (where sample and/or duplicate is less than $5xCRDL$) > $2xCRDL$?		X	
Field Duplicates			
Were field duplicates analyzed?		X	
Aqueous			
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5xCRDL?			X
4851R doc	JCH		

Inorganic Data Validation Checklist			
	YES	NO	NA
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5xCRDL?			X
Soil/Sediment			
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?			X
Is any difference between sample and duplicate (where sample and/or duplicate is less than $5x$ CRDL) > $2x$ CRDL?			X
Form VII (Laboratory Control Sample)			
Was one LCS prepared and analyzed for:			
each SDG?	X		
each batch samples digested/distilled?	X		
Aqueous LCS			
Is any LCS recovery:			X
less than 50%?			X
between 50% and 79%?			X
between 121% and 150%?			X
greater than 150%?			X
Solid LCS			
Is LCS "Found" value higher than the control limits?		X	
Is LCS "Found" lower than the control limits?		X	
Form IX (ICP Serial Dilution)			
Was Serial Dilution analysis performed for:			
each SDG?	X		
each matrix type?	X		
		X	
Was field blank(s) used for Serial Dilution Analysis?		Λ	
Are results outside control limits flagged with an "E"" on Form I's and Form IX when the initial concentration on Form IX is equal to 50 times IDL or greater.		X	
Are any required % difference values:			
> 10%?	X		
≥100%?		X	
Furnace Atomic Absorption (AA) QC Analysis			
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?			X
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?			X
Were dilutions analyzed for samples with analytical spike recovery less than 40%? 4851R doc	JCH		

Inorganic Data Validation Checklist	YES	NO	NA
			X
Is analytical spike recovery outside the control limits (85-115%) for any sample?			X
Form VIII (Method of Standard Addition Results)			
Present?			X
If no, is any Form I result coded with "S" or "+"?			X
Was MSA required for any sample but not performed?			X
Is the coefficient of correlation for MSA less than 0.995 for any sample?			X
Is the coefficient of correlation for MSA less than 0.990 for any sample?			X
Was proper quantitation procedure followed?			X
Dissolved/Total for Inorganic/Total Analytes			
Were any analyses performed for dissolved as well as total analytes on the same sample.			X
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if >CRDL)			X
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?			X
Field Blank			
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?			X
If no, was field blank value already rejected due to other QC criteria?			X
Form X, XI, XII (Verification of Instrumental Parameters)			
Is verification report present for :			
Instrument Detection Limits (quarterly)?	X		
ICP Interelement Correlation Factors (annually)?	X		
ICP Linear Ranges (quarterly)?	X		
Is IDL greater than CRDL for any analyte?		X	
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.			X
Was any sample result higher than the linear range of ICP.		X	
Was any sample result higher than the highest calibration standard for non-ICP parameters?		X	
If yes for any of the above, was the sample diluted to obtain the result on Form I?			X
Percent Solids			
Are the percent solids in soil/sediment(s):			
< 50%?		X	
< 10%?		X	

Corrected Sample Analysis Data Sheets



Lancaster Laboratories Sample No. SW 4542494

OU4-SS-04-COMP1(0-1) Soil Sample

RAL DePue Site

Collected: 06/03/2005

Account Number: 11594

Submitted: 06/13/2005 08:50 Reported: 06/30/2005 at 13:56

Blasland, Bouck & Lee 6723 Towpath Road, Box 66

Discard: 07/31/2005

Syracuse NY 13214-0066

SS411 SDG#: DPU06-01

C) m				Dry		
CAT No.	11		Dry	Method		Dilution
	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
06935	Arsenic	7440-38-2	9.78	1.11	mg/kg	1
00111	Moisture Code 086	n.a.	10.0	0.50	*	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	in weight of t moisture resul	he sample afte t reported abo	er oven drying at ove is on an		-
00394	pH Code 067	n.a.	6.5	0.010	Std.	1
	The nH was performed on a 1 1	-1			Units	

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

CAT		-				
No.	Analysis Name			Analysis		Dilution
		Method	Trial#	Date and Time	Analyst	Factor
06935	Arsenic	SW-846 6010B	1	06/18/2005 11:15	Damary Valentin	
00111	Moisture Code 086	EPA 160.3 modified				1
00394	pH Code 067		1	06/15/2005 07:58	William C Schwebel	1
		SW-846 9045C (modified)	1	06/15/2005 00:10	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/15/2005 07:00	Suzette L Lehman	1





Lancaster Laboratories Sample No. SW 4542495

OU4-SS-04-COMP1(1-6) Soil Sample

RAL DePue Site

Collected:06/03/2005

Submitted: 06/13/2005 08:50

Reported: 06/30/2005 at 13:56

Discard: 07/31/2005

SS412 SDG#: DPU06-02

Account Number: 11594

Blasland, Bouck & Lee 6723 Towpath Road, Box 66

Syracuse NY 13214-0066

CAT				Dry		
No.	Analysis Name	10172-1017	Dry	Method		Dilution
	wailers wame	CAS Number	Result	Detection Limit	Units	Factor
06935	Arsenic	7440-38-2	14.2	1.07	mg/kg	1
00111	Moisture Code 086	n.a.	6.5	0.50	mg/ ng	
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	in weight of t moisture resul	he sample afte t reported abo	er oven drying at ove is on an		
00394	pH Code 067	n.a.	7.2	0.010	Std. Units	1
	The pH was performed on a 1:1 of deionized water) after bein	slurry (25 gms. g tumbled for 3	of sample and min.	l 25 ml.	onics	

Laboratory Chronicle

CAT		Daboratory	CIIIO	IIICIE		
No.	Analysis Name	22.32		Analysis		Dilution
		Method	Trial#	Date and Time	Analyst	Factor
06935	Arsenic	SW-846 6010B	1	06/18/2005 11:20	Damary Valentin	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/15/2005 07:58		1
00394	pH Code 067				William C Schwebel	1
	• 10 10 10 10 10 10 10 10 10 10 10 10 10	SW-846 9045C (modified)	1	06/15/2005 00:10	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/15/2005 07:00	Suzette I. Lehman	,

88:18





Lancaster Laboratories Sample No. SW 4542496

OU4-SS-04-COMP1(6-12) Soil Sample

RAL DePue Site

Collected: 06/03/2005

Submitted: 06/13/2005 08:50 Reported: 06/30/2005 at 13:56

Discard: 07/31/2005

SS413 SDG#: DPU06-03

Account Number: 11594

Dry

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

CAT			Dry	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
00159	Mercury			Limit		
01643		7439-97-6	0.0860 J	0.111	mg/kg	1
01650		7429-90-5	11,000.	22.1	mg/kg	1
		7440-70-2	2,930.	33.2	mg/kg	1
01654	Iron	7439-89-6	14,900.	22.1	mg/kg	1
01657	3	7439-95-4	2,110.	27.7	mg/kg	1
01662		7440-09-7	1,630.	55.4	mg/kg	1
01667		7440-23-5	72.2 J	111.	mg/kg	1
06925		7440-28-0	1.70	1.11	mg/kg	1
06935	Arsenic	7440-38-2	7.96	1.11	mg/kg	1
06936	Selenium	7782-49-2	N.D.	1.11	mg/kg	1
06944	Antimony	7440-36-0	N.D.	6.64	mg/kg	1
06946	Barium	7440-39-3	442.	11.1	mg/kg	1
06947	Beryllium	7440-41-7	0.839	0.332	mg/kg	1
06949	Cadmium	7440-43-9	7.82	2.21	mg/kg	1
06951	Chromium	7440-47-3	18.1	4.43	mg/kg	1
06952	Cobalt	7440-48-4	9.18	5.54	mg/kg	1
06953	Copper	7440-50-8	64.0	4.43	mg/kg	1
06955	Lead	7439-92-1	129.	11.1	mg/kg	
06958	Manganese	7439-96-5	1,760.	2.21		1
06961	Nickel	7440-02-0	23.3	5.54	mg/kg	1
06966	Silver	7440-22-4		2.21	mg/kg	1
06971	Vanadium	7440-62-2	29.9		mg/kg	1
06972	Zinc	7440-66-6	1,560.	2.21	mg/kg	1
00111	Moisture Code 086	n.a.	and the same of th	11.1	mg/kg	1
			9.7	0.50	*	1
	"Moisture" represents the loss	moisture result	ne sample after	r oven drying at		
	as-received basis.	morsture resul	r reported abov	ve is on an		
00394	pH Code 067	n.a.	7.2	0.010	Std.	
				0.010	Units	1
	The pu was parformed as a se		DESCRIPTION OF STREET		OHILLS	

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

CAT No.

Analysis Name

Method

Analysis Trial# Date and Time

Analyst

3211 Dilution Factor



Lancaster Laboratories, Inc. 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4542497

OU4-SS-04-COMP2(0-1) Soil Sample

RAL DePue Site

Collected: 06/03/2005

Submitted: 06/13/2005 08:50 Reported: 06/30/2005 at 13:56

Discard: 07/31/2005

SS421 SDG#: DPU06-04

Account Number: 11594

Dry

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

				Dry		
CAT			Dry	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
00159		7439-97-6	0.0569 J	0.109	mg/kg	1
01643	Aluminum	7429-90-5	11,100.	21.9	mg/kg	1
01650	Calcium	7440-70-2	31,500.	32.8	mg/kg	1
01654	90.00	7439-89-6	15,000.)	21.9	mg/kg	1
01657	3	7439-95-4	16,800.	27.3	mg/kg	1
01662	Potassium	7440-09-7	2,170.	54.6	mg/kg	1
01667		7440-23-5	80.5 J	109.	mg/kg	1
06925	Thallium	7440-28-0	N.D.	1.09	mg/kg	1
06935	Arsenic	7440-38-2	7.89	1.09	mg/kg	1
06936	Selenium	7782-49-2	N.D.	1.09	mg/kg	1
06944	Antimony	7440-36-0	N.D.	6.56	mg/kg	1
06946	Barium	7440-39-3	472.	10.9	mg/kg	1
06947	Beryllium	7440-41-7	0.544	0.328	mg/kg	1
06949	Cadmium	7440-43-9	19.8	2.19	mg/kg	1
06951	Chromium	7440-47-3	17.7	4.37	mg/kg	1
06952	Cobalt	7440-48-4	8.46	5.46	mg/kg	1
06953	Copper	7440-50-8	38.8	4.37	mg/kg	1
06955	Lead	7439-92-1	143.	10.9	mg/kg	1
06958	Manganese	7439-96-5	815.	2.19	mg/kg	1
06961	Nickel	7440-02-0	15.4	5.46	mg/kg	1
06966	Silver	7440-22-4	0.560 J	2.19	mg/kg	1
06971	Vanadium	7440-62-2	29.3	2.19	mg/kg	1
06972	Zinc	7440-66-6	1,460.	10.9	mg/kg	1
00111	Moisture Code 086	n.a.	8.5	0.50	%	1
00201	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	in weight of to moisture resul	t reported abov	oven drying at	•	•
00394	pH Code 067 The pH was performed on a 1:1	n.a.	6.9	0.010	Std. Units	1
	ine pr was performed on a 1:1	SINTTY (25 cme	of cample and	2F m1		

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

No. Analysis Name

CAT

Method

Analysis Trial# Date and Time

Analyst

0013 Dilution

Factor





Lancaster Laboratories Sample No. SW 4542498

OU4-SS-04-COMP2(1-6) Soil Sample

RAL DePue Site

Collected: 06/03/2005

Account Number: 11594

Submitted: 06/13/2005 08:50 Reported: 06/30/2005 at 13:56

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

SS422 SDG#: DPU06-05

				Dry		
CAT			Dry	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
06935	Arsenic	7440-38-2	8.87	1.03	mg/kg	1
00111	Moisture Code 086	n.a.	3.0	0.50	£	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	in weight of t moisture resul	he sample aft t reported ab	er oven drying at ove is on an		ž.
00394	pH Code 067	n.a.	7.0	0.010	Std. Units	1
	m' ++	22 90000			Units	

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

C T M			01110	111010		
CAT	33			Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06935	Arsenic	SW-846 6010B	1	06/18/2005 11:39	Damary Valentin	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/15/2005 07:58	William C Schwebel	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/15/2005 00:10	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/15/2005 07:00	Suzette L Lehman	1





Lancaster Laboratories Sample No. SW 4542499

OU4-SS-04-COMP2(12-18) Soil Sample

RAL DePue Site

Collected: 06/03/2005

Account Number: 11594

Submitted: 06/13/2005 08:50 Reported: 06/30/2005 at 13:56

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

SS423 SDG#: DPU06-06

			Dry		
2 2 2 30		Dry	Method		Dilution
	CAS Number	Result	Detection Limit	Units	Factor
Arsenic	7440-38-2	8.51	1.12	ma/ka	1
Moisture Code 086	n.a.	10.7	0.50	*	1
"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	in weight of t moisture resul	he sample afte t reported abo	er oven drying at ove is on an		-
pH Code 067	n.a.	7.0	0.010	Std.	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	Arsenic 7440-38-2 Moisture Code 086 n.a. "Moisture" represents the loss in weight of the code of the c	Arsenic 7440-38-2 8.51 Moisture Code 086 n.a. 10.7 "Moisture" represents the loss in weight of the sample after 103 - 105 degrees Celsius. The moisture result reported above as-received basis.	Analysis Name CAS Number Result Detection Limit Arsenic Moisture Code 086 n.a. 10.7 0.50 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	Analysis Name CAS Number Result Detection Units Limit Arsenic 7440-38-2 8.51 1.12 mg/kg Moisture Code 086 n.a. 10.7 0.50 % "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

G3.00		Daboracory	CIILO	IIICIE		
No.	31/- W			Analysis		Dilution
	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06935	Arsenic	SW-846 6010B	1	06/18/2005 11:44	Damary Valentin	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/15/2005 07:58	William C Schwebel	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/15/2005 00:10	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/15/2005 07:00	Suzette L Lehman	1





Lancaster Laboratories Sample No. SW 4542500

OU4-SS-04-COMP3(0-1) Soil Sample

RAL DePue Site

Collected: 06/03/2005

Account Number: 11594

Submitted: 06/13/2005 08:50 Reported: 06/30/2005 at 13:57

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

SS431 SDG#: DPU06-07

				Dry		
CAT			Dry	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection Limit	Units	Factor
06935	Arsenic	7440-38-2	10.3	1.06	mg/kg	1
00111	Moisture Code 086	n.a.	5.9	0.50	*	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	in weight of t moisture resul	he sample after t reported abo	er oven drying at ove is on an		
00394	pH Code 067	n.a.	6.9	0.010	Std. Units	1
	mb = -11 6 3	2 2.50	2		Units	

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

No.	handania Nama			Analysis		Dilution
	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06935	Arsenic	SW-846 6010B	1	06/18/2005 11:48	Damary Valentin	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/15/2005 07:58	William C Schwebel	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/15/2005 00:10	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/15/2005 07:00	Suzette L Lehman	1



Blasland, Bouck & Lee

Dry



Page 1 of 2

Lancaster Laboratories Sample No. SW 4542501

OU4-SS-04-COMP3(1-6) Soil Sample

RAL DePue Site

Collected: 06/03/2005 Account Number: 11594

Submitted: 06/13/2005 08:50 Reported: 06/30/2005 at 13:57

6723 Towpath Road, Box 66 Discard: 07/31/2005 Syracuse NY 13214-0066

SS432 SDG#: DPU06-08

				221		
CAT			Dry	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
00159	Managemen			Limit		
01643		7439-97-6	0.0465 J	0.105	mg/kg	1
	Aluminum	7429-90-5	12,300.	21.1	mg/kg	1
01650	Calcium	7440-70-2	5,030.	31.6	mg/kg	1
01654	Iron	7439-89-6	19,300.	21.1	mg/kg	1
01657		7439-95-4	2,470.	26.3	mg/kg	1
01662	Potassium	7440-09-7	1,710.	52.6	mg/kg	1
01667		7440-23-5	66.4 J	105.	mg/kg	1
06925	Thallium	7440-28-0	N.D.	1.05	mg/kg	1
06935	Arsenic	7440-38-2	9.99	1.05	mg/kg	1
06936	Selenium	7782-49-2	N.D.	1.05	mg/kg	1
06944	Antimony	7440-36-0	N.D.	6.32	mg/kg	1
06946	Barium	7440-39-3	564.	10.5	mg/kg	1
06947	Beryllium	7440-41-7	0.787	0.316	mg/kg	1
06949	Cadmium	7440-43-9	26.9	2.11	mg/kg	1
06951	Chromium	7440-47-3	18.7	4.21	mg/kg	1
06952	Cobalt	7440-48-4	9.55	5.26	mg/kg	1
06953	Copper	7440-50-8	45.0	4.21	mg/kg	1
06955	Lead	7439-92-1	166.	10.5	mg/kg	1
06958	Manganese	7439-96-5	830.	2.11	mg/kg	1
06961	Nickel	7440-02-0	19.7	5.26	mg/kg	1
06966	Silver	7440-22-4	0.635 J	2.11	mg/kg	1
06971	Vanadium	7440-62-2	34.2	2.11	mq/kq	1
06972	Zinc	7440-66-6	2,520.	10.5	mg/kg	1
00111	Moisture Code 086	n.a.	5.0	0.50	*	1
	"Moisture" represents the loss				*	1
	103 - 105 degrees Celsius. The	moisture resul	t reported above	oven drying at		
	as-received basis.		- Loportea abov	o 15 Oil ail		
00394	pH Code 067	n.a.	6.7	0.010	Std.	1
	The end				Units	

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

CAT No.

Analysis Name

Method

Analysis Trial# Date and Time

Analyst

9918 Dilution Factor



Lancaster Laboratories, Inc. 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. SW 4542502

OU4-SS-04-COMP4(0-1) Soil Sample

RAL DePue Site

Collected: 06/02/2005

Account Number: 11594

Submitted: 06/13/2005 08:50 Reported: 06/30/2005 at 13:57

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66

Syracuse NY 13214-0066

SS441 SDG#: DPU06-09

				Dry		
CAT	1 2		Dry	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
05005				Limit		
06935	Arsenic	7440-38-2	9.17	1.08	mg/kg	1
00111	Moisture Code 086	n.a.	7.2	0.50	8	1
	"Moisture" represents the loss	in weight of t	he sample afte	er oven drving at		-
	103 - 105 degrees Celsius. The	moisture resul	t reported abo	ove is on an		
	as-received basis.					
00394	pH Code 067	n.a.	6.6	0.010	Std.	1
	F2 2 7700 F37				Units	

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

		Daboratory	CIIIO	IIICIE		
CAT	11			Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06935	Arsenic	SW-846 6010B	1	06/18/2005 11:58	Damary Valentin	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/15/2005 07:58	William C Schwebel	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/15/2005 00:10	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/15/2005 07:00	Suzette L Lehman	2



Units



Page 1 of 1

Lancaster Laboratories Sample No. SW 4542503

OU4-SS-04-COMP4(1-6) Soil Sample

RAL DePue Site

Collected: 06/02/2005

Account Number: 11594

Submitted: 06/13/2005 08:50 Reported: 06/30/2005 at 13:57

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

SS442 SDG#: DPU06-10

Dry CAT Dry Method Dilution No. Analysis Name CAS Number Result Detection Units Factor Limit 06935 Arsenic 7440-38-2 8.31 1.05 mg/kg 1 00111 Moisture Code 086 n.a. 5.2 0.50 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an

as-received basis.

00394 pH Code 067 n.a. 7.0 0.010 Std.

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

C73.00		Laboracory	CHILO	HICLE		
CAT No.	331			Analysis		Dilution
	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06935	Arsenic	SW-846 6010B	1	06/18/2005 12:02	Damary Valentin	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/15/2005 07:58	William C Schwebel	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/15/2005 00:10	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/15/2005 07:00	Suzette L Lehman	1



Syracuse NY 13214-0066

Drv

Method



Page 1 of 2

Lancaster Laboratories Sample No. SW 4542504

OU4-SS-04-COMP5(1-6) Soil Sample

RAL DePue Site

CAT

Collected: 06/02/2005 Account Number: 11594

Submitted: 06/13/2005 08:50 Blasland, Bouck & Lee Reported: 06/30/2005 at 13:57 6723 Towpath Road, Box 66 Discard: 07/31/2005

SS451 SDG#: DPU06-11

Dilution No. Analysis Name CAS Number Result Detection Units Factor Limit 00159 Mercury 7439-97-6 0.0298 J 0.121 mg/kg 01643 Aluminum 01650 Calcium 7429-90-5 9,010. 24.1 mg/kg 7 7440-70-2 3,210. 36.2 mg/kg 1 01654 7439-89-6 12,400. 24.1 mg/kg 01657 Magnesium 7439-95-4 1,710. 30.2 mg/kg 01662 Potassium 7440-09-7 2,510. 60.3 mg/kg 1 01667 Sodium 7440-23-5 69.9 J 121. mg/kg 06925 Thallium 7440-28-0 1.34 1.21 mg/kg 06935 Arsenic 7440-38-2 5.27 1.21 mg/kg 06936 Selenium 7782-49-2 N.D. 1.21 mg/kg 06944 Antimony 7440-36-0 N.D. 7.24 mg/kg 06946 Barium 256.)
7440-41-7 0.579
7440-43-9 5.02)
7440-47-3 15.5)
7440-48-4 8.39
7440-50-8 17.4)
7439-92-1 39.4 \
7439-96-5 7440-39-3 256. 12.1 mg/kg 06947 Beryllium 0.362 mg/kg 06949 Cadmium 2.41 mg/kg 06951 Chromium 4.83 mg/kg 06952 Cobalt 6.03 mg/kg 06953 Copper 4.83 mg/kg 06955 Lead 12.1 mg/kg 06958 Manganese 7439-96-5 2.41 1,320.) mg/kg 7440-02-0 06961 Nickel 19.0 6.03 mg/kg 1 06966 Silver 7440-22-4 N.D. 2.41 mg/kg 1 06971 Vanadium 7440-62-2 22.7 2.41 mg/kg 1

Drv

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

n.a.

7440-66-6

00394 pH Code 067 0.010 Std.

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

680.)

17.1

No. Analysis Name

CAT

06972 Zinc

00111 Moisture Code 086

Method

Analysis Trial# Date and Time

12.1

0.50

mg/kg

Units

1

1

1

8822 Dilution Factor





Lancaster Laboratories Sample No. SW 4542505

OU4-SS-04-COMP5(12-18) Soil Sample

RAL DePue Site

Collected: 06/02/2005

/02/2005 Account Number: 11594

Submitted: 06/13/2005 08:50 Reported: 06/30/2005 at 13:57

Discard: 07/31/2005

Blasland, Bouck & Lee 6723 Towpath Road, Box 66 Syracuse NY 13214-0066

SS452 SDG#: DPU06-12

				Dry		
CAT			Dry	Method		Dilution
No.	Analysis Name	CAS Number	Result	Detection	Units	Factor
				Limit		
06935	Arsenic	7440-38-2	9.26	1.14	mg/kg	1
00111	Moisture Code 086	n.a.	12.6	0.50	\$	1
	"Moisture" represents the loss 103 - 105 degrees Celsius. The as-received basis.	in weight of t moisture resul	he sample after t reported abo	er oven drying at		1
00394	pH Code 067	n.a.	7.5	0.010	Std.	1
	The ellipse and a	engle comment			Units	

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

Cam		4				
No.	Amalasada Wassa	120.00		Analysis		Dilution
	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
06935	Arsenic	SW-846 6010B	1	06/18/2005 12:12		ractor
00111	Moisture Code 086		_		Damary Valentin	1
00394		EPA 160.3 modified	1	06/15/2005 07:58	William C Schwebel	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/15/2005 00:10	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/15/2005 07:00	Suzette L Lehman	1

